

# READING SKATEPARK PRELIMINARY/FINAL SUBDIVISION & LAND DEVELOPMENT PLAN

PREPARED FOR  
**GRINDLINE SKATEPARKS, INC.**  
**CITY OF READING, BERKS COUNTY, PENNSYLVANIA**  
BY

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**READING**  
1047 North Park Road  
PO Box 6307  
Reading, PA 19610-0307  
610.621.2000  
**LANCASTER**  
701 Creekside Lane  
Lititz, PA 17543  
717.568.2678  
**LEHIGH VALLEY**  
Roma Corporate Center, Suite 106  
1605 N Cedar Crest Blvd  
Allentown, PA 18104  
610.849.9700  
**WEST CHESTER**  
101 East Evans Street  
West Chester, PA 19380  
610.621.2000



**APPLICANT:**  
READING SKATEPARK ASSOCIATION  
516 PENN AVENUE  
WEST READING, PA 19611  
JOHN TURNER (JD) - ASSOCIATION PRESIDENT  
P: 484.577.4183  
E: john.turner108@gmail.com

**OWNER:**  
READING REDEVELOPMENT AUTHORITY  
815 WASHINGTON STREET  
CITY HALL SUITE 2-53  
READING, PA 19601  
ERNEST SCHLEGEL - REDEVELOPMENT CHAIRMAN  
P: 610-655-8025  
E: schmeeg60@comcast.net

**ENGINEER:**  
SSM GROUP, INC.  
1047 NORTH PARK ROAD  
READING, PA 19610  
CONTACT: NICHOLAS SZEREDAI, PE  
P: 610.488.4742  
E: nick.szeredai@ssmgroup.com

**SKATEPARK DESIGNER:**  
GRINDLINE SKATEPARKS, INC.  
4619 14TH AVE. SW  
SEATTLE, WA 98108  
CONTACT: MICAH SHAPIRO  
P: 206.932.6414  
E: micah@grindline.com



## PA ONE CALL INFORMATION

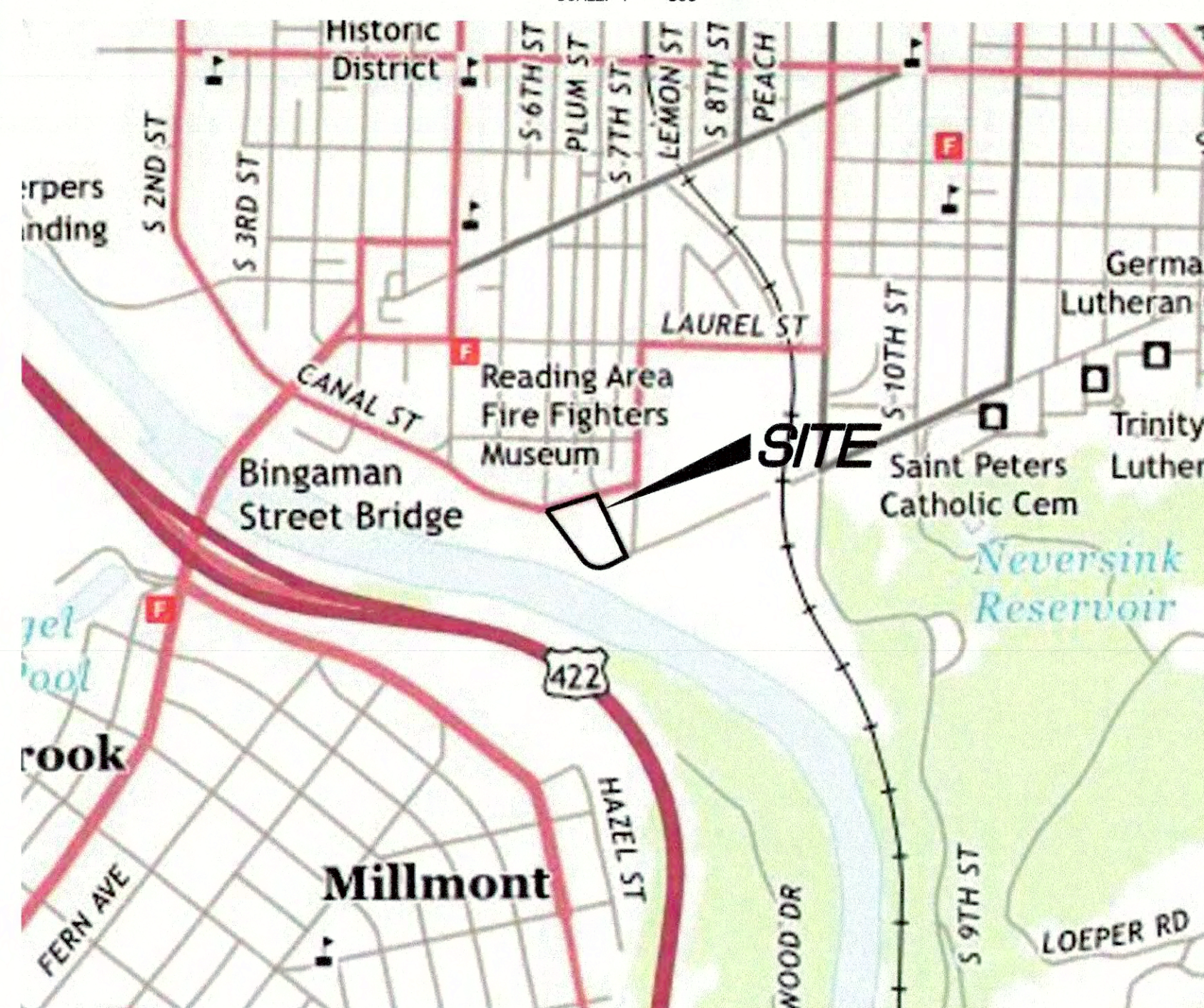
PA ONE CALL SERIAL NUMBER: 20200081873

MUNICIPALITY: CITY OF READING, BERKS COUNTY, PA

IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PENNSYLVANIA ACT 287 AND TO CONTACT THE "ONE CALL SYSTEM" THREE (3) WORKING DAYS (UNLESS OTHERWISE NOTED) PRIOR TO START OF CONSTRUCTION.

## LOCATION MAP

SCALE: 1" = 800'



## SITE ADDRESS:

601 CANAL STREET  
READING, PA 19602

## ELEVATION DATUM:

COORDINATES ARE BASED ON NORTH AMERICAN DATUM OF 1983 AND ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988, OBTAINED BY A VIRTUAL REFERENCE SPATIAL SYSTEM.

## TRACT SIZE:

1.842 ACRES

## TAX PIN NUMBER:

02-5306-43-86-6370

## SOURCE OF TITLE:

BEING THE SAME OR PART OF THE SAME PROPERTIES WHICH WERE CONVEYED TO THE REDEVELOPMENT AUTHORITY OF THE CITY OF READING BY THE DEEDS LISTED BELOW:

ADDRESS	DEED BOOK AND PAGE
605 CANAL STREET	1669-591
607 CANAL STREET	1642-509
609 CANAL STREET	1647-488
609 CANAL STREET	1643-765
611 CANAL STREET	1664-49
613 CANAL STREET	1648-872
615 CANAL STREET	1637-086
617 CANAL STREET	1642-540
619-621 CANAL STREET	1640-908
623-625 CANAL STREET	1638-234
627 CANAL STREET	1637-328
629 CANAL STREET	1640-1251
631 CANAL STREET	1642-547
633 CANAL STREET	1642-1154
635 CANAL STREET	1645-681
635A CANAL STREET	1647-291
635-637 CANAL STREET	1640-1192
639 CANAL STREET	1637-034
641 CANAL STREET	1638-856
643 CANAL STREET	1642-1150
645-649 CANAL STREET	1642-714
651 CANAL STREET	1638-860
630-632 MINOR STREET	1682-1088
634 MINOR STREET	1682-1091
636 MINOR STREET	1651-155
638-640 MINOR STREET	1648-805
642 MINOR STREET	1638-868
644 MINOR STREET	1638-864
646 MINOR STREET	1645-1036
648 MINOR STREET	1638-841
650-652 MINOR STREET	1638-234
654 MINOR STREET	1644-1224
656 MINOR STREET	1636-114
658 MINOR STREET	1647-534
660 MINOR STREET	1640-1054
662 MINOR STREET	1647-291
664 MINOR STREET	1638-648
666 MINOR STREET	1638-316
668 MINOR STREET	1647-413
670 MINOR STREET	1646-922
672 MINOR STREET	1647-1325
603 SOUTH STREET	1645-597
605 SOUTH STREET	1642-1146
607 SOUTH STREET	1637-802
609 SOUTH STREET	1642-1130
611 SOUTH STREET	1639-173
613 SOUTH STREET	1642-1126
615 SOUTH STREET	1644-1210
617 SOUTH STREET	1647-1325

## ZONING COMPLIANCE SUMMARY:

SECTION 600-811; M-C MANUFACTURING COMMERCIAL DISTRICT

SECTION 600-815; RR - RIVERFRONT REDEVELOPMENT OVERLAY DISTRICT

SECTION 600-811 B.1; BY-RIGHT USE: "RECREATION FACILITIES, PUBLIC PARKS AND NON MOORIZED TRAILS"

M-C MANUFACTURING COMMERCIAL DISTRICT:

	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT SIZE (SQUARE FEET)	20,000	80,115 SF	80,115 SF
MAXIMUM BUILDING COVERAGE	50%	0%	0.2% (194 SF)
MAXIMUM IMPERVIOUS COVERAGE	90%	0%	38.2 (31,445 SF)
MAXIMUM HEIGHT	60	N/A	10'
MINIMUM LOT WIDTH	80	80	255 FT
MINIMUM FRONT YARD SETBACK	15 (*)	15 (*)	15 FT
MINIMUM REAR YARD SETBACK	20 (*)	20 (*)	15 FT (NO REAR YARD)
MINIMUM SIDE YARD SETBACK (EACH)	10 (*)	10 (*)	15 FT

## NOTES:

1. REQUIRED FRONT YARD MAY BE REDUCED TO 10 FEET WHERE A LANDSCAPED BUFFER STRIP IS PROVIDED IN ACCORDANCE WITH SEC. 600-1401 OF THIS CHAPTER.
2. EXCEPT THIRTY-FOOT REAR AND TWENTY-FOOT SIDE SETBACK SHALL APPLY FOR AN INDUSTRIAL USE OR TRACTOR-TRAILER LOADING DOCK ADJACENT TO A LOT OF A PRINCIPALLY RESIDENTIAL USE.

## PARKING COMPLIANCE SUMMARY:

SECTION 600-1603 A.29; OUTDOOR PARKS, PLAYGROUNDS, PLAYING FIELDS, AND GAME COURTS REQUIRES ONE (1) PARKING SPACE FOR EACH 5,000 SF OF OUTDOOR RECREATIONAL AREA.

SKATEPARK = 26,500 SF  
CALCULATION: 26,500 SF / 5,000 SF = 5.3  
REQUIRED SPACES: 6  
PROPOSED SPACES: 6 (INCLUDES 1 HANDICAPPED SPACE)

THERE ARE APPROXIMATELY 30 ON-STREET PARALLEL PARKING SPACES AVAILABLE ALONG NEW CANAL STREET AND CANAL STREET.

PARKING LOT WILL BE INSTALLED IN PHASE 2, AFTER THE COMPLETION OF THE FULL CONCRETE SKATEPARK INSTALLATION.

## WAIVERS REQUESTED:

1. SECTION 515-304 REQUIRES SUBMISSION OF A PRELIMINARY PLAN, PARTIAL RELIEF IS REQUESTED TO CONSIDER THE PLAN PRELIMINARY/FINAL.
2. SECTION 515-401(A) - SKETCH PLANS SHALL BE A SCALE OF 1 INCH EQUAL TO 50 FEET. RELIEF IS REQUESTED TO PERMIT A SCALE OF 1 INCH EQUAL TO 30 FEET.
3. SECTION 515-402(A) - PRELIMINARY PLANS SHALL BE A SCALE OF 1 INCH EQUAL TO 50 FEET. RELIEF IS REQUESTED TO PERMIT A SCALE OF 1 INCH EQUAL TO 30 FEET.

(GRANTED BY CITY OF READING PLANNING COMMISSION ON FEBRUARY 23, 2021)

## PROJECT DESCRIPTION:

THIS PROJECT PROPOSES THE CONSOLIDATION OF THE EXISTING LOTS INTO ONE LOT AND THE CONSTRUCTION OF A PUBLIC SKATEPARK. THE SKATEPARK IS TO BE CONSTRUCTED IN THREE (3) PHASES:

- PHASE 1: SKATEPARK (PORTION ONLY), ADA IMPROVEMENTS, STORMWATER MANAGEMENT, TRASH CAN, AND FENCE.
- PHASE 2: SKATEPARK (REMAINDER OF PARK), PARKING LOT WITH LIGHTING, AND FENCE.
- PHASE 3: BATHROOM WITH UTILITIES, SHADE STRUCTURES, PARK AMENITIES, SKATEPARK LIGHTING.

## DEVELOPER AGREEMENT:

PROVIDED THE READING SKATEPARK ASSOCIATION (THE APPLICANT) COMMENCES THE LAND DEVELOPMENT DESCRIBED IN THE FINAL LAND DEVELOPMENT PLANS APPROVED BY THE CITY OF READING PLANNING COMMISSION BY ITS RESOLUTION 04-2021, THE DEVELOPER HEREBY AGREES TO COMPLETE ALL THE IMPROVEMENTS TO THE REAL PROPERTY WHICH IS THE SUBJECT OF SAID LAND DEVELOPMENT PLANS IN ACCORDANCE WITH THE LAND DEVELOPMENT PLANS AS APPROVED IN SAID RESOLUTION 04-2021, BY THE CITY OF READING PLANNING COMMISSION, EXCEPT AS MAY BE MODIFIED, FROM TIME TO TIME, UPON WRITTEN REQUEST OF THE DEVELOPER AND WRITTEN APPROVAL OF THE CITY OF READING PLANNING COMMISSION OR BUREAU OF PLANNING.

JOHN TURNER (JD) - ASSOCIATION PRESIDENT

NAME: *[Signature]* 09/01/2021

SIGNATURE: DATE:

READING SKATEPARK ASSOCIATION  
516 PENN AVENUE  
WEST READING, PA 19611

## CITY OF READING PLANNING COMMISSION

THE CITY OF READING  
BERKS COUNTY, PENNSYLVANIA

AT A MEETING HELD FEBRUARY 23, 2021, THE PLANNING COMMISSION OF THE CITY OF READING BY MOTION DULY ENACTED, APPROVED THE READING SKATEPARK, BY RESOLUTION NO. 04-2021 AS SHOWN HEREON.

DocuSigned by:  
WAYNE JONAS BEALER  
76A76686F50B413  
CHAIRMAN

DocuSigned by:  
LEE OLSEN  
76A76686F50B413  
LEE OLSEN

DocuSigned by:  
WILLIAM CINFICI  
76A76686F50B413  
WILLIAM CINFICI

DocuSigned by:  
PHILIP ASHEAR  
76A76686F50B413  
PHILIP ASHEAR

## BERKS COUNTY PLANNING COMMISSION

"As per the provisions of ACT 247 the Penns<sup>1</sup> Municipalities Planning Code, and the requirements of Berks County Ordinance No. 1, the Land Subdivision and Land Development Regulations of the County of Berks, the Berks County Planning Commission has review authorization only, pertaining to this Plan. The Berks County Planning Commission accordingly has reviewed this Plan on August 5, 2020 and commented on same to the municipality in question, and is affixing its seal and the signature of its Executive Director thereto to signify that such review and comment has occurred. The Berks County Planning Commission has no responsibility for this Plan other than stated above."

49-13438

## CERTIFICATE OF OWNERSHIP

COMMONWEALTH OF PENNSYLVANIA  
COUNTY OF BERKS

110187.0001 C.0-01

DATE: 07/13/2020  
LAST REVISED: 03/12/2021

ON THIS DAY OF Sept 9, 2021, BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED JOHN TURNER (JD), known to me to be the owner's AUTHORIZED REPRESENTATIVE OF THE PROPERTY SHOWN ON THIS PLAN, THAT THE LAND DEVELOPMENT PLAN WAS MADE AT HIS DIRECTION, THAT HE ACKNOWLEDGES THE SAME TO BE HIS ACT AND PLAN AND DESIRES THE SAME TO BE RECORDED AS SUCH ACCORDING TO LAW.

NAME: *[Signature]*  
SIGNATURE: DATE: 9/13/2021

SWORN TO AND SUBSCRIBED BEFORE ME ON Sept 9, 2021 (DATE).

NAME: *[Signature]*  
SIGNATURE: DATE: 9/13/2021  
NOTARY PUBLIC

MY COMMISSION EXPIRES August 5, 2024  
Linda A. Kelleher, Notary Public  
Berks County  
My commission expires April 17, 2024  
Commission number 1083048  
Member, Pennsylvania Association of Notaries

## CERTIFICATION OF ACCURACY

I HEREBY CERTIFY THAT THE PLAN SHOWN AND DESCRIBED HEREON, AS WELL AS ALL DRAWINGS BEARING MY SEAL, ARE TRUE AND CORRECT TO THE STANDARD OF ACCURACY REQUIRED BY THE LAND SUBDIVISION REGULATIONS OF THE CITY OF READING, AND WERE PREPARED BY ME OR UNDER MY DIRECTION; FOR SUCH PLANS AND DRAWINGS I ACCEPT FULL RESPONSIBILITY. THE PERIMETER MONUMENTS AND MARKERS HAVE BEEN PLACED AS REQUIRED BY THE CITY OF READING SUBDIVISION AND LAND DEVELOPMENT ORDINANCE.

DATE: 09/01/2021 SIGNATURE: *[Signature]*

NICHOLAS A. SZEREDAI, PE  
SSM GROUP, INC.  
1047 NORTH PARK ROAD  
READING, PA 19610-0307

## STORM SEWER NOTES

I, NICHOLAS SZEREDAI, ON THIS DATE 07/15/2021, HEREBY CERTIFY THAT THE DRAINAGE PLAN MEETS ALL DESIGN STANDARDS AND CRITERIA OF THE APPLICABLE (SCHUYLKILL RIVER OR TULFEHOCKEN CREEK) WATERSHED ACT 167 STORMWATER MANAGEMENT ORDINANCE.

DATE: 09/01/2021 SIGNATURE: *[Signature]*

NICHOLAS A. SZEREDAI, PE  
SSM GROUP, INC.  
1047 NORTH PARK ROAD  
READING, PA 19610-0307

## RECEIVED

OCT 01 2021

Berks County  
Planning Commission

## BERKS COUNTY RECORDER OF DEEDS





LEGEND	
	EXISTING TRAFFIC SIGNAL
	EXISTING HANDICAP PARKING
	EXISTING TELEPHONE MANHOLE
	EXISTING WATER MANHOLE
	EXISTING STORM MANHOLE
	EXISTING SANITARY MANHOLE
	EXISTING ELECTRIC MANHOLE
	EXISTING LIGHT
	EXISTING TREE
	EXISTING SIGN
	EXISTING FIRE HYDRANT
	EXISTING INLET
	EXISTING GAS VALVE
	EXISTING STORM VALVE
	EXISTING SANITARY CLEANOUT
	EXISTING UTILITY POLE
	EXISTING BENCHMARK
	EXISTING MONUMENT
	EXISTING PROPERTY CORNER
	EXISTING MONITORING WELL
	EXISTING MAILBOX
	EXISTING GASLINE
	EXISTING WATERLINE
	EXISTING ELECTRIC LINE
	EXISTING TELEPHONE LINE
	EXISTING CABLE LINE
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING OVERHEAD UTILITY LINES
	EXISTING TREEROW
	EXISTING GUIDERAIL
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	EXISTING PROPERTY LINE
	EXISTING ADJOINER LINE
	EXISTING BUILDING SETBACK LINE
	EXISTING ZONING BOUNDARY
	EXISTING SOIL LINE
	EXISTING FLOODPLAIN

LEGEND	
	PROPOSED TREE
	PROPOSED SHRUB
	PROPOSED PARKING SPACES
	PROPOSED HANDICAP PARKING
	PROPOSED SPOT ELEVATION
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED FENCING
	PROPOSED GUIDE RAIL
	PROPOSED STORM PIPE
	PROPOSED SANITARY PIPE
	PROPOSED WATER LINE
	PROPOSED GAS LINE
	PROPOSED ELECTRIC LINE
	PROPOSED CATCH BASIN
	PROPOSED FIRE HYDRANT
	PROPOSED SIGN
	PROPOSED GRASS
	PROPOSED CONCRETE
	PROPOSED STANDARD PAVING
	PROPOSED HEAVY DUTY PAVING

GENERAL NOTES:

- EXISTING SITE CONDITIONS SURVEYED BY SPOTTS, STEVENS AND MCCOY, INC. ON JANUARY 8, 2020.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ALL KNOWN OR VISIBLE TO SURFACE UTILITIES HAVE BEEN SHOWN ON THE PLAN. SOME EXPLORATORY DIGGING MAY BE REQUIRED BY THE CONTRACTOR TO ACCURATELY LOCATE AND VERIFY LOCATION, SIZE, MATERIAL AND APPURTENANCES OF ON-SITE UTILITIES.
- DURING CONSTRUCTION, CONTRACTOR SHALL PROTECT ALL PEDESTRIAN WALKWAYS AND VEHICULAR DRIVEWAY AREAS WITH APPROPRIATE BARRICADES AND WARNING DEVICES. TEMPORARY CONSTRUCTION FENCING SHALL BE IMPLEMENTED TO KEEP THE AREA OF DISTURBANCE FREE OF NON-CONSTRUCTION RELATED PERSONNEL. THE CONTRACTOR SHALL UTILIZE TRAFFIC CONTROL DEVICES, EMPLOY FLAG MAN OR TRAFFIC CONTROL PERSONNEL AS NECESSARY TO ENSURE VEHICULAR MOTORISTS NAVIGATE THE WORK ZONE SAFELY.
- CONTRACTOR SHALL SAFEGUARD ALL UTILITIES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING UTILITIES INCLUDING BUT NOT LIMITED TO SANITARY SEWER FACILITIES, STORMWATER MANAGEMENT FACILITIES, THROUGHOUT THE CONSTRUCTION OF THE PROJECT.
- LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLAN HAVE BEEN DEVELOPED FROM EXISTING UTILITY RECORDS AND/OR ABOVE GROUND EXAMINATION OF THE SITE. COMPLETENESS OR ACCURACY OF LOCATION AND DEPTH OF UNDERGROUND UTILITIES OR STRUCTURES CANNOT BE GUARANTEED. THE CONTRACTOR(S) IS (ARE) RESPONSIBLE TO CONTACT EACH UTILITY COMPANY OR AUTHORITY AT LEAST THREE (3) DAYS BEFORE ANY EXCAVATION OF EXISTING UTILITIES. PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL INVESTIGATE EXISTING UNDERGROUND UTILITY LOCATIONS, RESEARCH PUBLIC AND SITE UTILITY RECORDS, AND DIG TEST PITS IN AREAS TO THE EXTENT NECESSARY TO VERIFY EXISTING UTILITY DEPTHS AND LOCATIONS AND TO VERIFY THAT STORM DRAINAGE AND UTILITY SYSTEMS PIPE, EXCAVATION, FILL AND GRADING MAY BE INSTALLED IN COMPLIANCE WITH ORIGINAL DESIGN AND REFERENCE STANDARDS. IF THE CONTRACTOR DETERMINES THAT THE ORIGINAL DESIGN IS IN CONFLICT WITH THE EXISTING UTILITIES, HE SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF SUCH CONFLICT. CONTRACTOR IS CAUTIONED NOT TO ORDER ANY MATERIALS OR PERFORM ANY FURTHER WORK UNTIL SUCH VERIFICATION AND/OR DESIGN PROTESTATION CLARIFICATION HAS BEEN PROVIDED. CONTRACTOR WILL BE REQUIRED TO REPAIR ALL DAMAGED UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL REQUIRED MUNICIPAL PERMITS.
- PURSUANT TO PA ACT 121 (2008), NOTIFICATION TO THE "ONE-CALL SYSTEM" IS REQUIRED AT LEAST THREE (3) WORKING DAYS PRIOR TO DISTURBING EARTH WITH ANY TYPE OF POWERED EQUIPMENT. CALL 1-800-242-1776.
- ALL CONSTRUCTION IMPROVEMENTS SHALL BE LOCATED, DESIGNED, INSTALLED AND/OR CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT STANDARDS SPECIFIED BY THE CITY OF READING. IF NOT COVERED, THEN PENNDOT PUBLICATION 408-SPECIFICATIONS AND PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION RC SERIES SHALL APPLY, UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL FINISHED GRADING IS TO BE DONE SO AS TO ENSURE POSITIVE DRAINAGE TOWARD THE APPROPRIATE INLET OR DRAINAGE FACILITY.
- SPOT ELEVATIONS INDICATE FINISH SURFACE ELEVATION UNLESS OTHERWISE NOTED ON THE PLAN. ALL GRADES SHALL BE SMOOTH AND CONTINUOUS.
- ALL DIMENSIONS AND CONDITIONS MUST BE CHECKED AND VERIFIED IN THE FIELD BEFORE STARTING WORK. ANY DISCREPANCY SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S ENGINEER FOR A RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- ALL ADA ACCESS ROUTES, RAMPS AND PARKING AREAS SHALL BE CONSTRUCTION IN ACCORDANCE WITH THE ADAAG (2010), ANSI A117.1-2003 AND/OR OTHER BUILDING CODES, WHERE REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN DETAILED "AS-BUILT" INFORMATION OF THE LATERALS, BENDS, VALVES, DROP CONNECTIONS, ETC. OF ALL UTILITY LINE CONSTRUCTION.
- THE PROJECT SITE DRAINS TO THE SCHUYLKILL RIVER WHICH IS CLASSIFIED AS WARM WATER FISHERY (WWF) ACCORDING TO PA CHAPTER 93 WATER QUALITY STANDARDS.
- A PORTION OF THE PROJECT SITE IS LOCATED WITHIN THE 100-YEAR FLOODPLAIN ACCORDING TO FEMA FLOOD INSURANCE RATE MAP (FIRM) 42011C0508G. THE DEVELOPMENT IS LOCATED ON LANDS LOCATED WITHIN THE 500-YEAR FLOOD ZONE, WHICH HAS BEEN DESIGNATED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) ON FLOOD INSURANCE RATE MAPS (FIRM). THEREFORE, THE PROPOSED USE IS PERMITTED BY RIGHT UNDER THE PROVISIONS SPECIFIED BY FEMA AND PART 18 OF THE ZONING ORDINANCE. NO PROPOSED SITE IMPROVEMENTS WILL ENCROACH UPON AND/OR ADVERSELY IMPACT THE LIMITS OF THE 100-YR FLOODPLAIN.
- THERE ARE NO KNOWN WETLANDS WITHIN THE PROJECT AREA.
- ALL STORMWATER CONVEYANCE AND MANAGEMENT FACILITIES (BASINS, INFILTRATION BEDS, SWALES, PIPES, ETC.) SHOWN ON THIS PLAN ARE PERMANENT AND ARE NOT TO BE REMOVED OR FILLED WITHOUT APPROVAL BY THE MUNICIPALITY.
- THE OWNER IS RESPONSIBLE FOR ALL EXTERIOR MAINTENANCE OF THE PROPERTY. THE MAINTENANCE OF THE UTILITIES OUTSIDE OF PUBLIC RIGHT-OF-WAY LINES INCLUDING STORMWATER FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER.
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED FOR CONSTRUCTION.
- ALL PARKING AREAS SHALL BE LINE PAINTED, EACH PARKING SPACE SHALL BE DELINEATED WITH FOUR INCH PAINTED LINES. ALL LINE PAINTING PLACEMENT SHALL BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408.
- ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES. ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL IMMEDIATELY INFORM THE ENGINEER OF ANY DISCREPANCIES OR ERRORS THEY DISCOVER IN THE PLAN.
- DEVIATION FROM THESE PLANS AND NOTES WITHOUT THE PRIOR CONSENT OF THE OWNER OR HIS REPRESENTATIVE OR THE ENGINEER MAY BE CAUSE FOR THE WORK TO BE REJECTED.
- ALL MATERIALS SHALL BE NEW AND SHALL BE ASBESTOS AND VERMICULITE FREE.
- PROPOSED UTILITIES ARE SUBJECT TO FINAL DESIGN AND APPROVAL BY THE LOCAL UTILITY COMPANIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROTECTION OF WORK AREAS DURING CONSTRUCTION.

- PRIOR TO CONSTRUCTION, CONTRACTOR TO FIELD LOCATE AND RECORD ANY DAMAGE TO EXISTING PAVING, SIDEWALK, CURB, OR STRUCTURES NOT TO BE REMOVED OR REPLACED, ENGINEER TO VERIFY LOCATION AND EXTENT OF DAMAGE.
- DAMAGE TO EXISTING PAVING, SIDEWALK, CURB, OR STRUCTURES NOT TO BE REPLACED OR REMOVED DURING CONSTRUCTION SHALL BE IMMEDIATELY REPORTED TO ENGINEER. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE WORK WITHOUT CHARGE TO THE OWNER.
- CURB RAMPS TO BE CONSTRUCTED IN ACCORDANCE TO PENNDOT RC-67M.
- CONTRACTOR TO MAINTAIN FIRE DEPARTMENT ACCESS TO THE SITE AT ALL TIMES AND EXISTING FIRE HYDRANTS ARE TO REMAIN UNOBSTRUCTED.
- ALL EARTHWORK WITHIN THE FEMA FLOODPLAIN SHALL BE CUT ONLY. ELEVATIONS SHALL NOT BE INCREASED.
- THE PROJECT WILL CONTAIN A TWO-STALL PRE-FABRICATED BATHROOM WHICH WILL BE SERVICED WITH PUBLIC WATER AND PUBLIC SEWER WITH CONNECTIONS TO EXISTING UTILITY LINES WITHIN NEW CANAL STREET. THE BATHROOM, AND RELATED UTILITIES, WILL BE INSTALLED IN PHASE 3.
- PRIOR TO THE INSTALLATION OF THE BATHROOM BUILDING, THE DESIGN ENGINEER, APPLICANT, AND CITY PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED 14 DAYS IN ADVANCE OF PLACEMENT. UTILITIES NEED TO BE INSTALLED AND VERIFIED IN PROPER LOCATION PRIOR TO BATHROOM PLACEMENT. A SIX (6) INCH DEPTH 2A STONE COMPACTED AND FLAT BED SHALL BE INSTALLED IN THE LOCATION OF THE BATHROOM PRIOR TO BATHROOM PLACEMENT.
- THERE IS A CITY OWNED 96 INCH / 8FT DIAMETER PIPE WHICH TRAVERSES THE MIDDLE OF THE PROPERTY WHICH CARRIES STORMWATER. AN ENCAPSULATED STREAM FROM THE CITY TO THE SCHUYLKILL RIVER. THE CONDITION AND EXACT LOCATION OF THIS PIPE IS UNKNOWN. THERE IS AN EXISTING 30 FOOT WIDE EASEMENT ALONG THE PIPE BASED ON CITY RECORD PLAN MC-D-1616. NO PORTION OF THE PARK IS WITHIN THE REFERENCED EASEMENT.
- TO DATE, THERE ARE NO PROPOSED IMPROVEMENTS ON THE PORTION OF THE SITE SOUTH OF THE 96" DIAMETER STORMWATER PIPE.
- NO LANDSCAPING IS PROPOSED. SECTION 600-1602-O REQUIRES SCREENING OF LOADING DOCKS WHICH ARE NOT APPLICABLE TO THIS PROJECT. SECTION 600-1401 C REQUIRES BUFFER PLANTINGS FOR PARKING LOTS OF EIGHT (8) SPACES OR MORE; HOWEVER, ONLY SIX (6) SPACES ARE PROPOSED. SECTION 600-815.H.3 REQUIRES A MINIMUM AVERAGE OF ONE STREET TREE PER 40 FEET OF STREET LENGTH, UNLESS EXISTING TREES WILL BE PRESERVED TO SERVE THE SAME PURPOSE. EXISTING STREET TREES PROPOSED TO REMAIN TO SATISFY THIS REQUIREMENT. IT IS ESSENTIAL TO LIMIT THE VEGETATION IN PROXIMITY TO THE SKATE PARK TO PREVENT LEAVES AND DEBRIS FROM ENTERING THE PARK. ALL EXISTING STREET TREES SHALL BE PRUNED AND MAINTAINED TO ADDRESS LANDSCAPING REQUIREMENTS AS PART OF THIS PROJECT. LANDSCAPING WAS DETERMINED ADEQUATE BY THE PLANNING COMMISSION.
- APPLICABLE SIGNAGE WILL BE INSTALLED, PRIOR TO THE OPENING OF THE PARK, INDICATING THAT THIS FACILITY IS A "USE AT YOUR OWN RISK" PARK. THE CITY OF READING SHALL REVIEW ALL PARK SIGNS PRIOR TO INSTALLATION.
- THE PROJECT IS PROPOSED TO BE CONSTRUCTED IN 3 PHASES. SEE COVER SHEET.
- SINCE THE TOTAL SITE EARTH DISTURBANCE EXCEEDS 1 ACRE, AN NPDES PERMIT IS REQUIRED FOR THIS PROJECT. THE PERMIT WAS SUBMITTED AND APPROVED BY THE BERKS COUNTY CONSERVATION DISTRICT (BCCD). THE BCDD NPDES PERMIT NUMBER IS PAC060287 AND IT IS VALID UNTIL DECEMBER 7, 2024, UNLESS MODIFIED, EXTENDED OR CLOSED OUT.
- ANY/ALL STEEP SLOPES ON SITE ARE CONSIDERED MAN-MADE; THEREFORE, NOT DEPICTED BY HATCHING/COLOR.
- THE ANTICIPATED CONSTRUCTION SCHEDULE IS TO BEGIN PHASE 1 CONSTRUCTION IN SPRING OF 2021 AND PHASE 2 BY SPRING 2025 OR EARLIER IF FUNDING IS ACQUIRED. PHASE 1 OF THIS PROJECT WILL BE BID UPON PLAN APPROVAL AND RECORDING. UPON RECEIPT OF CONSTRUCTION BIDS, APPLICABLE CITY PERMITS WILL BE SUBMITTED WITH APPLICABLE CONTRACTOR INFORMATION.
- THE ELEVATIONS INDICATED ON GRINDLINE SKATEPARKS, INC. PLAN SHEET SP1.2 ARE PROPOSED SPOT ELEVATIONS.
- HYDRAULIC UPLIFT FROM FLOODING IS NOT ANTICIPATED TO NEGATIVELY AFFECT THE PROPOSED SKATEPARK. BODY DRAINS, WHICH FUNCTION AS RELIEF DRAINS, ARE NOW INCLUDED WITHIN THE SKATEPARK. THESE DRAINS WOULD ALLOW GROUND WATER TO ENTER THE PARK AND SKATING BOWLS TO RELIEVE ANY PRESSURE UPWARDS AS GROUNDWATER RISES.
- THE DEVELOPER IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS FROM THE CITY OF READING AND ANY OTHER GOVERNMENTAL AGENCIES. ANY APPROVAL OF THIS PLAN BY THE CITY OF READING PLANNING COMMISSION SHOULD NOT BE CONSTRUED AS APPROVAL TO BEGIN CONSTRUCTION. REQUIRED APPROVALS MAY INCLUDE, BUT NOT NECESSARILY BE LIMITED TO, BERKS COUNTY CONSERVATION DISTRICT APPROVAL, PADEP SEWAGE PLANNING APPROVAL, PENNDOT HIGHWAY OCCUPANCY PERMIT, SEWER CONNECTION PERMITS, STREET CUT PERMITS, PLUMBING PERMITS, AND BUILDING PERMITS. ALL CONSTRUCTION SHALL CONFORM TO CITY OF READING REGULATIONS, SPECIFICATIONS, AND INSPECTIONS WHERE APPLICABLE.
- IF CONTAMINATED SOILS ARE ENCOUNTERED DURING CONSTRUCTION, THE DESIGN ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND NO WORK IN THE AREA OF THE CONTAMINATION SHALL BE COMPLETED UNTIL THE CONTAMINATED SOILS HAVE BEEN ADEQUATELY ADDRESSED ACCORDING TO PADEP AND CITY OF READING REQUIREMENTS.
- THIS SITE IS LOCATED WITHIN A PORTION OF THE CORE HABITAT RIDGEWOOD NATURAL HERITAGE AREA (NHA) ACCORDING TO THE COUNTY NATURAL HERITAGE INVENTORY. THIS AREA IS KNOWN TO CONTAIN DUSTED SKIPPER, COBWEB SKIPPER BUTTERFLIES, AND THREE SENSITIVE SPECIES. TO PRESERVE THESE SPECIES, NO INSECTICIDES SHALL BE USED DURING CONSTRUCTION.
- A DEP SEWER PLANNING MODULE IS NOT REQUIRED. BASED ON RESEARCH OF THE PRIOR DEEDS FOR THIS PARCEL, IT WAS DETERMINED THAT SEVERAL RESIDENCES EXISTED ON THIS LOT AT THE TIME PA ACT 537 BECAME EFFECTIVE ON MAY 15, 1972. ONE OF THE PRIOR DEEDS (605 CANAL ST.) CONTAINS A PROPERTY PLAN DATED 11/20/1974 THAT INDICATES THAT AT LEAST ONE RESIDENCE WAS PRESENT ON THE LOT AT THAT TIME. THE PROPOSED SEWER FLOW FOR THE SKATEPARK IS LESS THAN 1 EDU. THEREFORE, ACCORDING TO THE DEP, SINCE SEWER PLANNING FOR THIS LOT WAS PREVIOUSLY AUTHORIZED (BY DEFAULT), THE PROPOSED SEWER FLOW FOR THIS DEVELOPMENT CAN EQUAL THE PRIOR APPROVED FLOW WITHOUT THE NEED FOR ADDITIONAL SEWER PLANNING AUTHORIZATION.
- THIS PROJECT INCLUDES ADA CURB RAMP UPGRADES AT THE NORTHEAST (INTERSECTION OF MINOR STREET AND NEW CANAL STREET) AND SOUTHEAST (INTERSECTION OF SOUTH STREET AND MINOR STREET) CORNERS OF THE PROPERTY. THE CURB RAMP ON THE NORTHWEST CORNER OF THE PROPERTY IS NOT INCLUDED SINCE IT WILL BE UPGRADED BY THE CITY OF READING DURING THE REPAVING OF SOUTH 6TH STREET IN 2021-2022.

- THE PROPOSED REFUSE AND RECYCLING DISPOSAL CONTAINER LOCATION IS INDICATED ON SHEET C-1-01. THE EXACT LOCATION SHALL BE DETERMINED THROUGH COORDINATION WITH THE CITY OF READING. THE MAINTENANCE AND REMOVAL OF THE WASTE WITHIN THE REFUSE AND RECYCLING DISPOSAL CONTAINER IS TO BE MAINTAINED BY THE CITY OF READING / SUSTAINABILITY & SOLID WASTE MANAGEMENT AT INTERVALS DETERMINED BY STAFF BASED ON USAGE.
- ALL PROPOSED SIGNS SHALL COMPLY WITH THE PROVISIONS SPECIFIED BY THE CITY OF READING. SIGNS SHALL BE APPROVED BY THE CITY PRIOR TO INSTALLATION. COORDINATION IN REGARD TO THE CONTENT OF THE SIGN SHALL BE ADDRESSED WITH CITY STAFF AND THE RECREATIONAL COMMISSION.
- ALL PROPOSED SITE IMPROVEMENTS AND UTILITY CONNECTIONS (I.E., WATER, SEWER, ELECTRIC, ETC.) SHALL BE LOCATED, DESIGNED, PERMITTED, CONSTRUCTED AND INSPECTED IN ACCORDANCE WITH THE PROVISIONS SPECIFIED BY THE CITY OF READING.
- THE SITE RENDERING ON SHEET SP1.1 WAS PROVIDED FOR THE CONCRETE SKATEPARK PERSPECTIVE USE ONLY. THIS RENDERING DOES NOT MATCH THE EXACT LIGHTING LOCATIONS AND DOES NOT DEPICT THE REQUIRED FENCING. THIS PLAN SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.
- A PHASE I ENVIRONMENTAL SITE ASSESSMENT (ESA) REPORT DATED DECEMBER 30, 2020 WAS PREPARED BY LIBERTY ENVIRONMENTAL, INC. FOR THIS SITE. THE REPORT GENERALLY CONCLUDED THAT THIS SITE CONTAINED TOWNHOUSES WHICH WERE PREVIOUSLY DEMOLISHED WHICH MAY HAVE CONTAINED LEAD PAINT WHICH WOULD POTENTIALLY COULD LEAD LEAD CONTAMINATION OF THE SOILS. THE REPORT RECOMMENDED THAT IF ANY BASEMENT, INDUSTRIAL USE, OR IF A PUBLIC PARK WHICH WOULD RESULT IN THE DIRECT CONTACT OF SOIL WAS ANTICIPATED, A PHASE II ESA WOULD BE RECOMMENDED. THE PROPOSED SKATEPARK DOES NOT PROPOSE ANY ACTIVITY WHICH WOULD ENCOURAGE USERS TO COME IN DIRECT CONTACT WITH SOIL; THEREFORE, A PHASE II STUDY WAS DETERMINED TO NOT BE NECESSARY AT THIS TIME. IF ADDITIONAL IMPROVEMENTS OUTSIDE OF THE SKATEPARK ARE PROPOSED, THE CITY OF READING RESERVES THE RIGHT TO REQUIRE A PHASE II ESA, IF DETERMINED NECESSARY.
- ALL ADA RAMPS SHALL BE REVIEWED AND APPROVED BY THE CITY OF READING PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION. SHOP DRAWINGS OF SAID ADA RAMPS SHALL BE SUBMITTED UNDER A SEPARATE COVER WITH DETAILED DESIGN, INCLUDING BUT NOT LIMITED TO: ELEVATIONS, SLOPES, AND DIMENSIONS. THESE SHOP DRAWING MAY VARY FROM THE PLANS TO THE EXTENT REQUIRED BY THE CITY OF READING. ADA RAMPS SHALL MEET CITY STANDARDS.
- AS PART OF THIS PROJECT, THE EXISTING PARCEL ON THIS SITE ARE PROPOSED TO BE CONSOLIDATED. SEE EXISTING CONDITIONS / LOT CONSOLIDATION - TITLE PLAN ON SHEET C-1-50. A CONSOLIDATED DEED SHALL BE RECORDED WITH THE COUNTY PRIOR TO CONSTRUCTION.
- THE READING SKATEPARK ASSOCIATION (RSA) ACKNOWLEDGES ANY APPROVAL OF THE READING SKATEPARK PROJECT IS VALID FOR ONLY 5-YEARS FROM THE TIME OF APPROVAL. IF ALL PHASES OF THE SKATEPARK ARE NOT CONSTRUCTED BY THE END OF THE 5 YEAR PERIOD, THE RSA ACKNOWLEDGES THAT THEY WILL BE REQUIRED TO RESUBMIT THEIR PROJECT TO THE CITY OF READING, WITH APPLICABLE FEES, FOR REAFFIRMATION OF PLAN APPROVAL.

RELEASED FOR:

PRELIMINARY/FINAL





**SSM**  
SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
sangroup.com

READING  
1000 N. Cedar Creek Blvd  
PO Box 6207  
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610.662.2001

LEHIGH VALLEY  
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PO Box 6207  
Reading, PA 19607  
610.662.2000  
610.662.2001

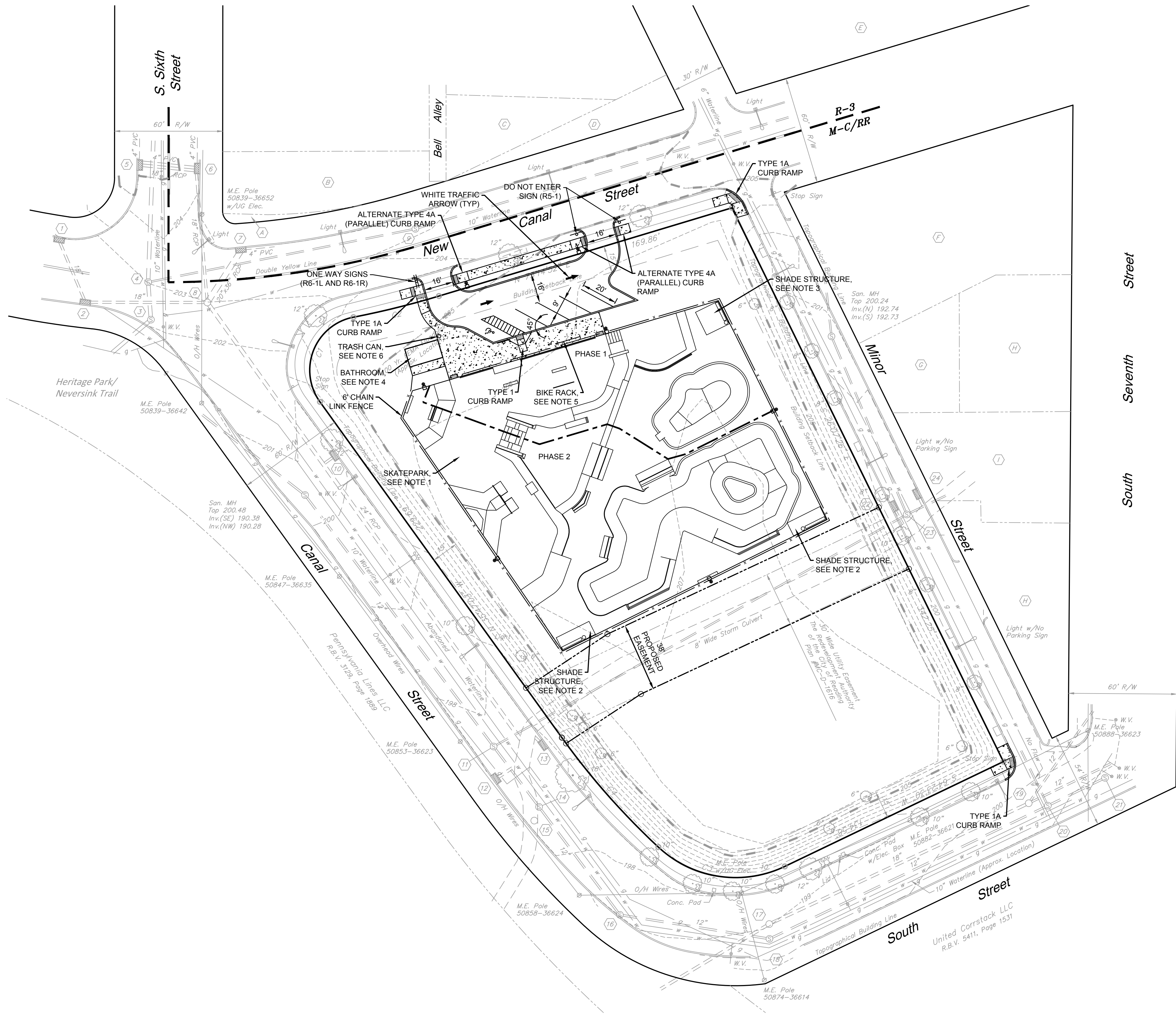
LEHIGH VALLEY  
1000 N. Cedar Creek Blvd  
PO Box 6207  
Reading, PA 19607  
610.662.2000  
610.662.2001

GRINDLINE SKATEPARKS, INC.

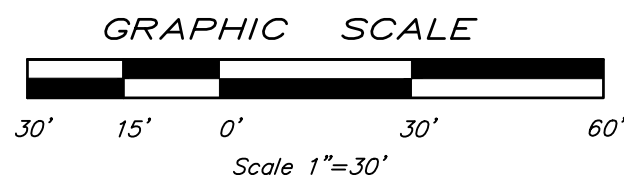
4619 14TH AVENUE SW, SEATTLE WA 98108  
READING SKATEPARK  
LEGENDS AND NOTES

07/13/20	110187.0001
DATE	C:0-02
110187.0001	
WORK ORDER NUMBER	
C.0-02	
DRAWING NUMBER	





- NOTES:
1. REFER TO PLANS BY GRINDLINE SKATEPARKS, INC. FOR DETAILED SKATEPARK DESIGN.
  2. SHADE STRUCTURE SHALL BE POLIGON MODEL NO. MSE-10x21. THE COLUMN TO COLUMN DIMENSION IS 8'x20.25' AND THE ROOF DIMENSION IS 10'x21'. THE STRUCTURE SHALL BE INSTALLED DURING PHASE 3.
  3. SHADE STRUCTURE SHALL BE POLIGON MODEL NO. CAR-16. THE COLUMN TO COLUMN DIMENSION IS 14'x14' AND THE ROOF DIMENSION IS 16'x16'. THE STRUCTURE SHALL BE INSTALLED DURING PHASE 3.
  4. BATHROOM SHALL BE CXT PRECAST MODEL CORTEZ. THE BUILDING DIMENSIONS ARE 9.5'x17' AND THE ROOF DIMENSIONS ARE 10.25'x19'. THE BATHROOM, AND RELATED UTILITIES, SHALL BE INSTALLED DURING PHASE 3.
  5. BIKE RACK SHALL BE DUMOR MODEL NO. 140-30 HDGALV. IT SHALL BE INSTALLED DURING PHASE 1.
  6. TRASH CAN SHALL BE DUMOR MODEL NO. 437-40SH. IT SHALL BE INSTALLED DURING PHASE 1.



GRINDLINE SKATEPARKS, INC.  
4619 14TH AVENUE SW, SEATTLE WA 98106

READING SKATEPARK  
OVERALL SITE PLAN

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07/13/20	110187.0001
DATE	C.1-01
WORK ORDER NUMBER	
DRAWING NUMBER	110187.0001
	C.1-01

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**READING**  
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Reading, PA 19606  
610.840.0700  
101 East Evans Street  
Reading, PA 19606  
610.621.2000

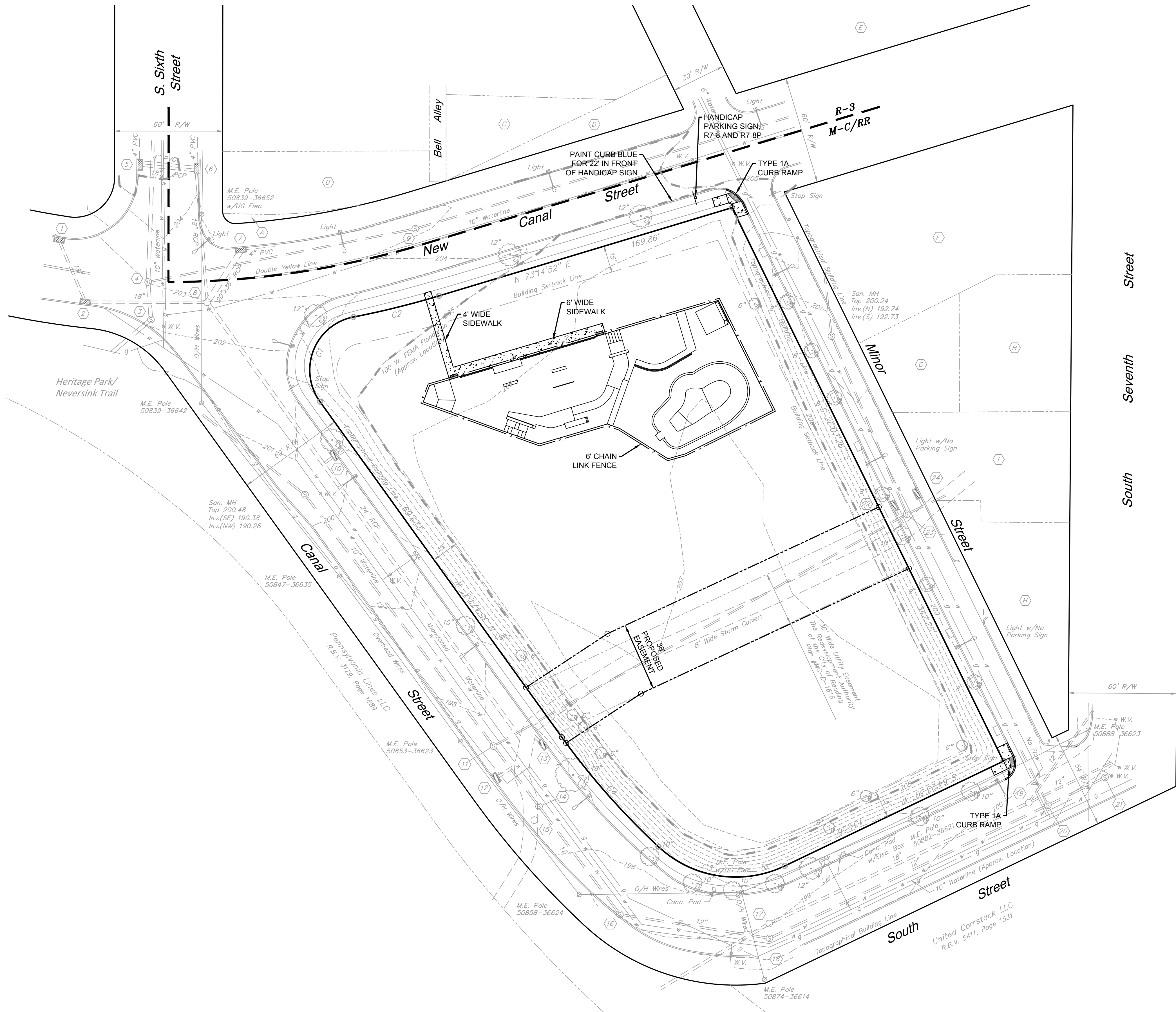
**CASTER**  
1608 N. Cedar Creek Blvd  
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101 East Evans Street  
Reading, PA 19606  
610.621.2000



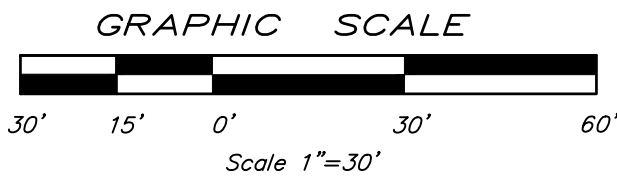
PROJECT MANAGER: N.A.S.	DATE: 07/13/20	CHECKED BY: N.A.S.
BASE BY: SURVEY	N.B.:	DESIGNED BY: AMW
DRAWN BY: MBD		

NO.	DATE	DESCRIPTION
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98	03/12/21	CITY REVISION 98
99	03/12/21	CITY REVISION 99
100	03/12/21	CITY REVISION 100





- NOTES:
1. THE PROPOSED SIDEWALK LEADING UP TO THE SKATEPARK SHOWN ON THIS PLAN IS FOR PHASE 1 ONLY, AND SHALL BE REMOVED/MODIFIED AS NECESSARY FOR FULL BUILD OUT. REFER TO SHEET C.1-01 FOR FULL BUILD OUT.
  2. THE PROPOSED HANDICAP SIGN AND BLUE CURB PAINT ALONG NEW CANAL STREET ARE FOR PHASE 1 ONLY, AND SHALL BE REMOVED DURING FULL BUILD OUT.
  3. THE PORTION OF THE SKATEPARK SHOWN ON THIS PLAN THAT IS LOCATED BETWEEN PHASE 1 AND 2 OF THE SKATEPARK SHALL BE REMOVED DURING FULL BUILD OUT. REFER TO SHEET C.1-01 FOR FULL BUILD OUT.



GRINDLINE SKATEPARKS, INC.

4619 14TH AVENUE SW, SEATTLE WA 98106

READING SKATEPARK

PHASE 1 SITE PLAN

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READING  
PO Box 6307  
810621-2006  
LEHIGH VALLEY  
1600 N. Cedar Creek Blvd  
4101 840 0700  
101 East Evans Street  
810621-2006

NO.	DATE	CHECKED BY	DESIGNED BY	N.B.	DATE	PROJECT MANAGER	BASE BY	DRAWN BY
1	07/13/20	N.A.S.	N.A.S.					
2	07/13/20	N.A.S.	N.A.S.					
3	07/13/20	N.A.S.	N.A.S.					
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83	07/13/20	N.A.S.	N.A.S.					
84	07/13/20	N.A.S.	N.A.S.					
85	07/13/20	N.A.S.	N.A.S.					
86	07/13/20	N.A.S.	N.A.S.					
87	07/13/20	N.A.S.	N.A.S.					
88	07/13/20	N.A.S.	N.A.S.					
89	07/13/20	N.A.S.	N.A.S.					
90	07/13/20	N.A.S.	N.A.S.					
91	07/13/20	N.A.S.	N.A.S.					
92	07/13/20	N.A.S.	N.A.S.					
93	07/13/20	N.A.S.	N.A.S.					
94	07/13/20	N.A.S.	N.A.S.					
95	07/13/20	N.A.S.	N.A.S.					
96	07/13/20	N.A.S.	N.A.S.					
97	07/13/20	N.A.S.	N.A.S.					
98	07/13/20	N.A.S.	N.A.S.					
99	07/13/20	N.A.S.	N.A.S.					
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110187.0001

WORK ORDER NUMBER

C.1-02

DRAWING NUMBER



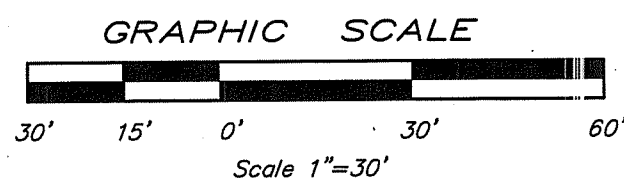
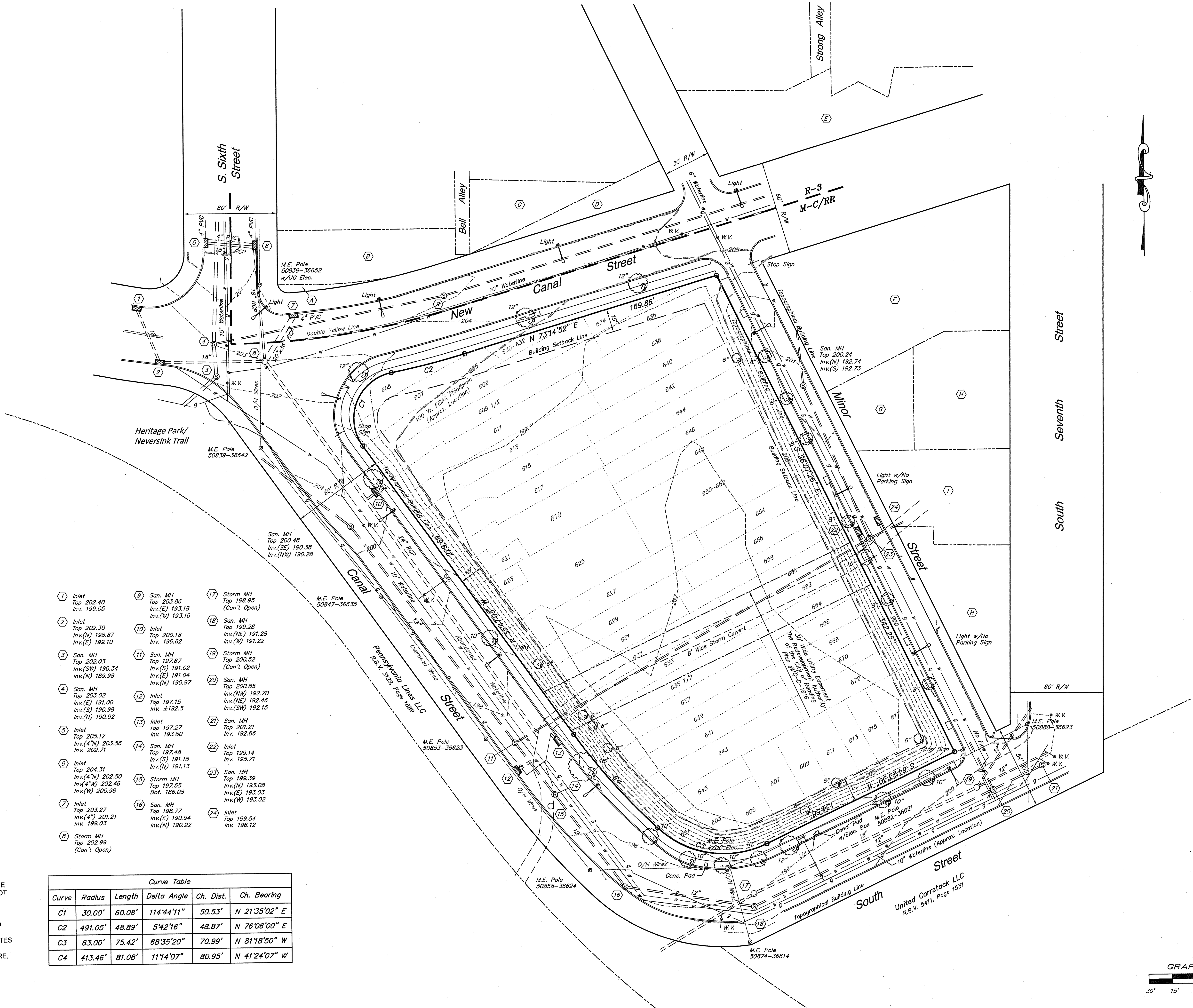
**Property Owners**

- A Redevelopment Authority of the City of Reading  
D.B.V. 1637, Page 798
- B BP Solutions, Inc.  
A Maryland Corporation  
Instrument #2017026808
- C Gloria M. Deysher, married  
R.B.V. 2043, Page 578
- D Redevelopment Authority of the City of Reading  
D.B.V. 1682, Page 1085
- E Angela Celentano, adult individual  
Instrument #2011048451
- F Reading Elevator Service, Inc.  
R.B.V. 2935, Page 2041
- G Reading Elevator Service, Inc.  
Instrument #2008059996
- H Windsor Way Holdings, LLC  
Instrument #2018031346
- I Alejandro Ramirez Cortes  
Instrument #2018008671

NOTE: THE CONSOLIDATION PLAN (C-1-50) INCLUDES A SIMPLE DEED PLOT OF THE SEPARATE LOTS WITHIN THE CONSOLIDATED LOT SEPARATE SURVEYS FOR EACH LOT ARE NOT PROVIDED. CITY OF READING PUBLIC WORKS FOUND THIS ACCEPTABLE BECAUSE ALL LOTS ARE LOCATED ENTIRELY WITHIN THE BOUNDARY OF THE PUBLIC RIGHT-OF-WAY (CANAL ST, NEW CANAL ST, AND MINOR ST). THAT IS, NO OTHER PRIVATE PROPERTY ADJOINS THE CONSOLIDATED LOT. SITUATION ELIMINATES LOT LINE DISPUTES BETWEEN ADJOINING PROPERTY OWNERS SINCE THERE ARE NO ADJOINERS; THEREFORE, THE CITY OF READING PUBLIC WORKS DEPARTMENT FOUND THIS CONSOLIDATION TO BE ACCEPTABLE.

Curve Table					
Curve	Radius	Length	Delta Angle	Ch. Dist.	Ch. Bearing
C1	30.00'	60.08'	114°44'11"	50.53'	N 21°35'02" E
C2	491.05'	48.89'	5°42'16"	48.87'	N 76°06'00" E
C3	63.00'	75.42'	68°35'20"	70.99'	N 81°18'50" W
C4	413.46'	81.08'	117°47'07"	80.95'	N 41°24'07" W

- 1 Inlet  
Top 202.40  
Inv. 199.05
- 2 Inlet  
Top 202.30  
Inv.(N) 198.87  
Inv.(E) 199.10
- 3 San. MH  
Top 202.03  
Inv.(SW) 190.34  
Inv.(N) 189.98
- 4 San. MH  
Top 203.02  
Inv.(E) 191.00  
Inv.(S) 190.98  
Inv.(N) 190.92
- 5 Inlet  
Top 205.12  
Inv.(4"N) 203.56  
Inv. 202.71
- 6 Inlet  
Top 204.31  
Inv.(4"N) 202.50  
Inv.(4"W) 202.46  
Inv.(W) 200.96
- 7 Inlet  
Top 203.27  
Inv.(4") 201.21  
Inv. 199.03
- 8 Storm MH  
Top 202.99  
(Can't Open)
- 9 San. MH  
Top 203.86  
Inv.(E) 193.18  
Inv.(W) 193.16
- 10 Inlet  
Top 200.18  
Inv. 196.62
- 11 San. MH  
Top 197.67  
Inv.(S) 191.02  
Inv.(E) 191.04  
Inv.(N) 190.97
- 12 Inlet  
Top 197.15  
Inv. ±192.5
- 13 Inlet  
Top 197.27  
Inv. 193.80
- 14 San. MH  
Top 197.48  
Inv.(S) 191.18  
Inv.(N) 191.13
- 15 Storm MH  
Top 197.55  
Bot. 186.08
- 16 San. MH  
Top 198.77  
Inv.(E) 190.94  
Inv.(N) 190.92
- 17 Storm MH  
Top 198.95  
(Can't Open)
- 18 San. MH  
Top 199.28  
Inv.(NE) 191.28  
Inv.(W) 191.22
- 19 Storm MH  
Top 200.52  
(Can't Open)
- 20 San. MH  
Top 200.85  
Inv.(NW) 192.70  
Inv.(NE) 192.46  
Inv.(SW) 192.15
- 21 San. MH  
Top 201.21  
Inv. 192.66
- 22 Inlet  
Top 199.14  
Inv. 195.71
- 23 San. MH  
Top 199.39  
Inv.(N) 193.08  
Inv.(E) 193.03  
Inv.(W) 193.02
- 24 Inlet  
Top 199.54  
Inv. 196.12



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**PRELIMINARY/FINAL**

**SSM**  
SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
ssmgroup.com

**GRINDLINE SKATEPARKS, INC.**  
4619 4TH AVENUE SW, SEATTLE WA 98108

READING SKATEPARK  
EXISTING CONDITIONS / LOT CONSOLIDATION - TITLE PLAN

07/13/20 110187.0001  
DATE DIGITAL FILENAME

110187.0001  
WORK ORDER NUMBER

**C.1-50**  
DRAWING NUMBER

PROJECT MANAGER: NAS  
DATE: 07/13/20

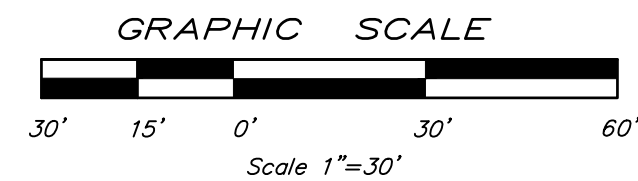
DESIGNED BY: AMW  
CHECKED BY: NAS

PROJECT REVISION 2  
CITY REVISION 1  
REVISIONS BASED ON NDPE COMMENTS

NO. DATE DESCRIPTION

1 07/13/20  
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NOTES:  
1. REFER TO PLANS BY GRINDLINE SKATEPARKS, INC. FOR DETAILED SKATEPARK GRADING.

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C.2-01

**READING**  
1047 North Park Road  
PO Box 6307  
Reading, PA 19610-0307  
610.621.2000

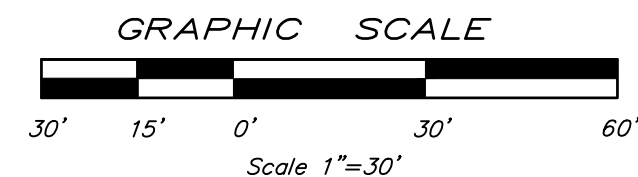
**LANCASTER**  
701 Creekside Lane  
Lititz, PA 17543  
717.568.2678

**LEHIGH VALLEY**  
Romma Corporate Center, S  
1605 N Cedar Crest Blvd  
Allentown, PA 18104  
610.849.9700

**WEST CHESTER**  
101 East Evans Street  
West Chester, PA 19380  
610.621.2000

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NOTES:  
1. REFER TO PLANS BY GRINDLINE SKATEPARKS, INC. FOR DETAILED SKATEPARK GRADING.

4619 14TH AVENUE SW, SEATTLE WA 98106

READING SKATEPARK

GRADING PLAN - PHASE 2

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07/13/20	110187.0001 C.2-02
DATE	DIGITAL FILENAME
110187.0001	
WORK ORDER NUMBER	
C.2-02	
DRAWING NUMBER	

READING  
1047 North Park Road  
Baltimore, PA 21204-0397  
Tel: 410-528-1000  
Fax: 410-528-1001  
http://www.lancaster.edu  
Lancaster, PA 17602

LANCASTER  
UNIVERSITY

LEHIGH VALLEY  
UNIVERSITY  
1050 N. Cedar Crest Blvd  
Allentown, PA 18104  
Tel: 610-848-2700  
Fax: 610-848-2701  
http://www.lehighvalley.edu  
Allentown, PA 18105

Lehigh Valley  
University

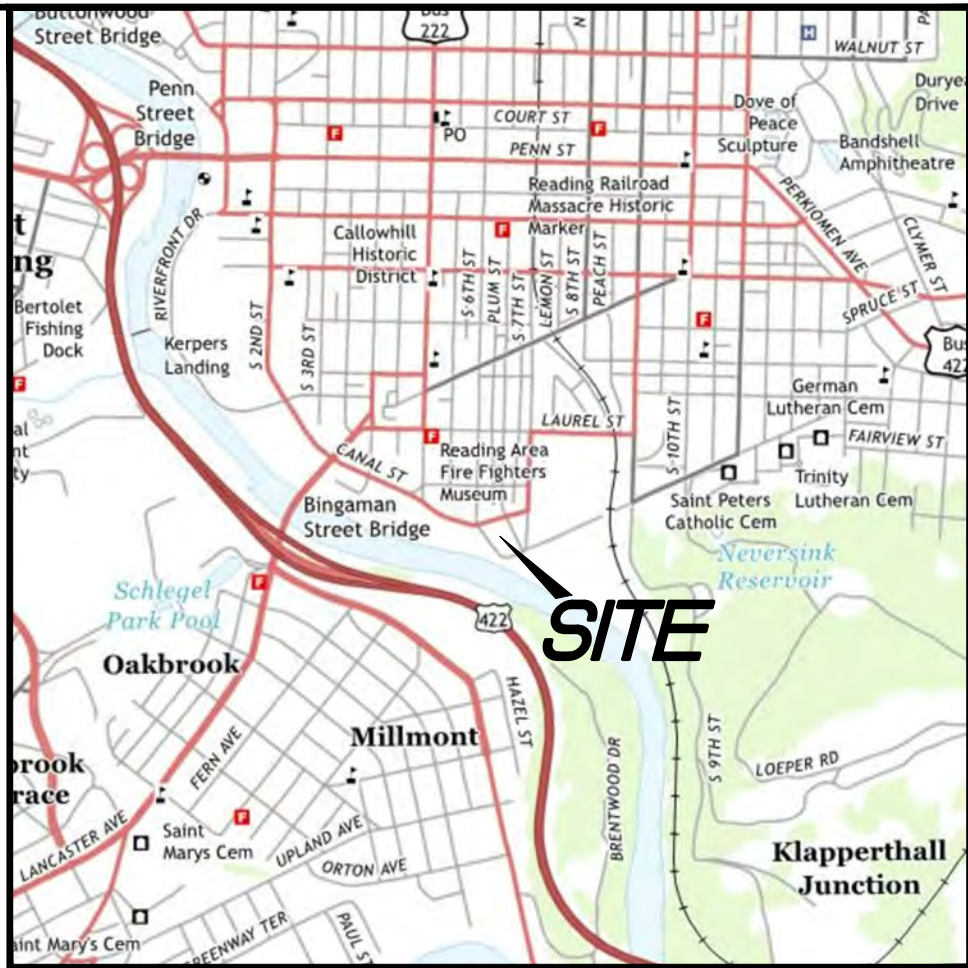
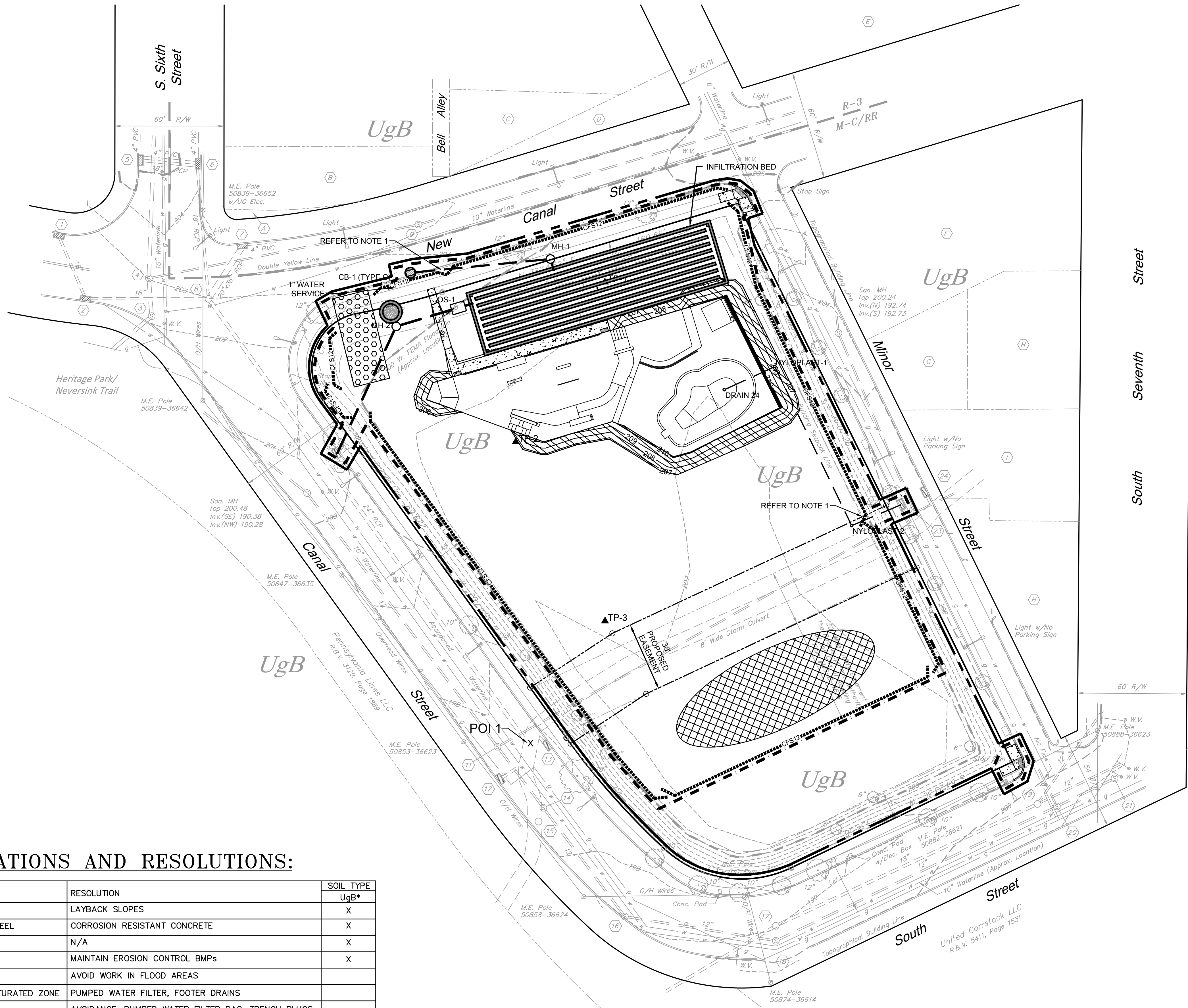
SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
sengroup.com  
101 East Enders Street  
Allentown, PA 18106  
Tel: 610-261-2200

SSM

COMMONWEALTH OF  
PENNSYLVANIA  
REGISTERED  
PROFESSIONAL  
ENGINEER  
PE005674  
*Nicholas A. Szeredai*

[illegible]



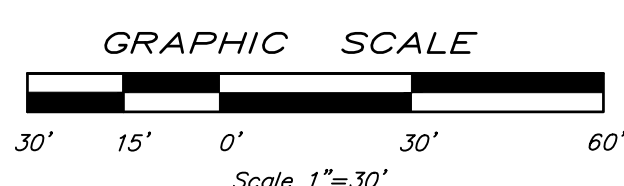


LOCATION MAP  
SCALE: 1" = 2000'

- E&S LEGEND**
- LIMIT OF DISTURBANCE
  - NPDES PERMIT BOUNDARY
  - CFS12----- COMPOST FILTER SOCK (12" DIAMETER)
  - [Pattern] EROSION CONTROL BLANKET
  - [Symbol] FILTER BAG INLET PROTECTION
  - [Pattern] ROCK CONSTRUCTION ENTRANCE
  - ReB / InB SOIL BOUNDARY AND TYPES
  - [Pattern] TOPSOIL STOCKPILE AREA
  - [Symbol] CONCRETE WASHOUT

NOTES:  
1. TEMPORARILY MOVE SILT SOCK. AS REQUIRED, TO INSTALL PROPOSED STORM PIPE. REINSTALL SILT SOCK AT COMPLETION OF PIPE INSTALLATION.

SOILS	
TYPE	DESCRIPTION
UgB	URBAN LAND, 0 TO 8% SLOPES



SOIL LIMITATIONS AND RESOLUTIONS:

LIMITATION	RESOLUTION	SOIL TYPE
CUTBANKS CAVE	LAYBACK SLOPES	UgB*
CORROSIVE TO CONCRETE/STEEL	CORROSION RESISTANT CONCRETE	X
DROUGHTY	N/A	X
EASILY ERODIBLE	MAINTAIN EROSION CONTROL BMPs	X
FLOODING	AVOID WORK IN FLOOD AREAS	
DEPTH TO WATER TABLE/SATURATED ZONE	PUMPED WATER FILTER, FOOTER DRAINS	
HYDRIC/HYDRIC INCLUSIONS	AVOIDANCE, PUMPED WATER FILTER BAG, TRENCH PLUGS	
LOW STRENGTH/LANDSLIDE PRONE	LAYBACK SLOPES/DESIGN FOR CONDITIONS	X
SLOW PERCOLATION	DRAINAGE DITCH, PUMPED WATER FILTER BAG	X
PIPING	TRENCH PLUG	
POOR SOURCE OF TOPSOIL	AVOID REUSE AS TOPSOIL OR AMEND AS NECESSARY	X
FROST ACTION	CONSTRUCT BELOW FROST DEPTHS/POSITIVE SUBGRADE	X
SHRINK/SWELL	AVOID USE OF CLAY SOILS IN BUILDING AREAS	
POTENTIAL SINKHOLE	SINKHOLE MITIGATION TECHNIQUES	X
PONDING	PROVIDE POSITIVE DRAINAGE	
WETNESS	UTILIZE GOOD WEATHER/TEMPORARY DRAIN TILE	

\* SOIL LIMITATIONS BASED ON MINOR COMPONENT OF UDORTMENTS

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**PRELIMINARY/FINAL**



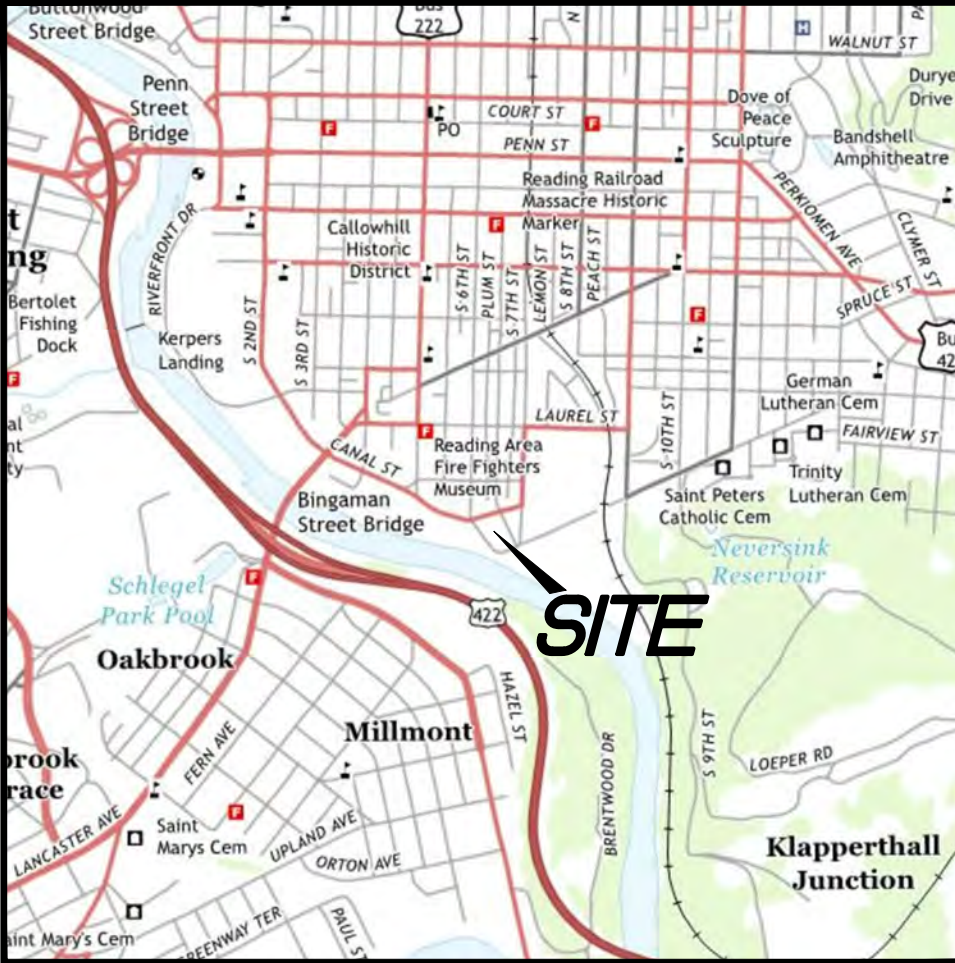
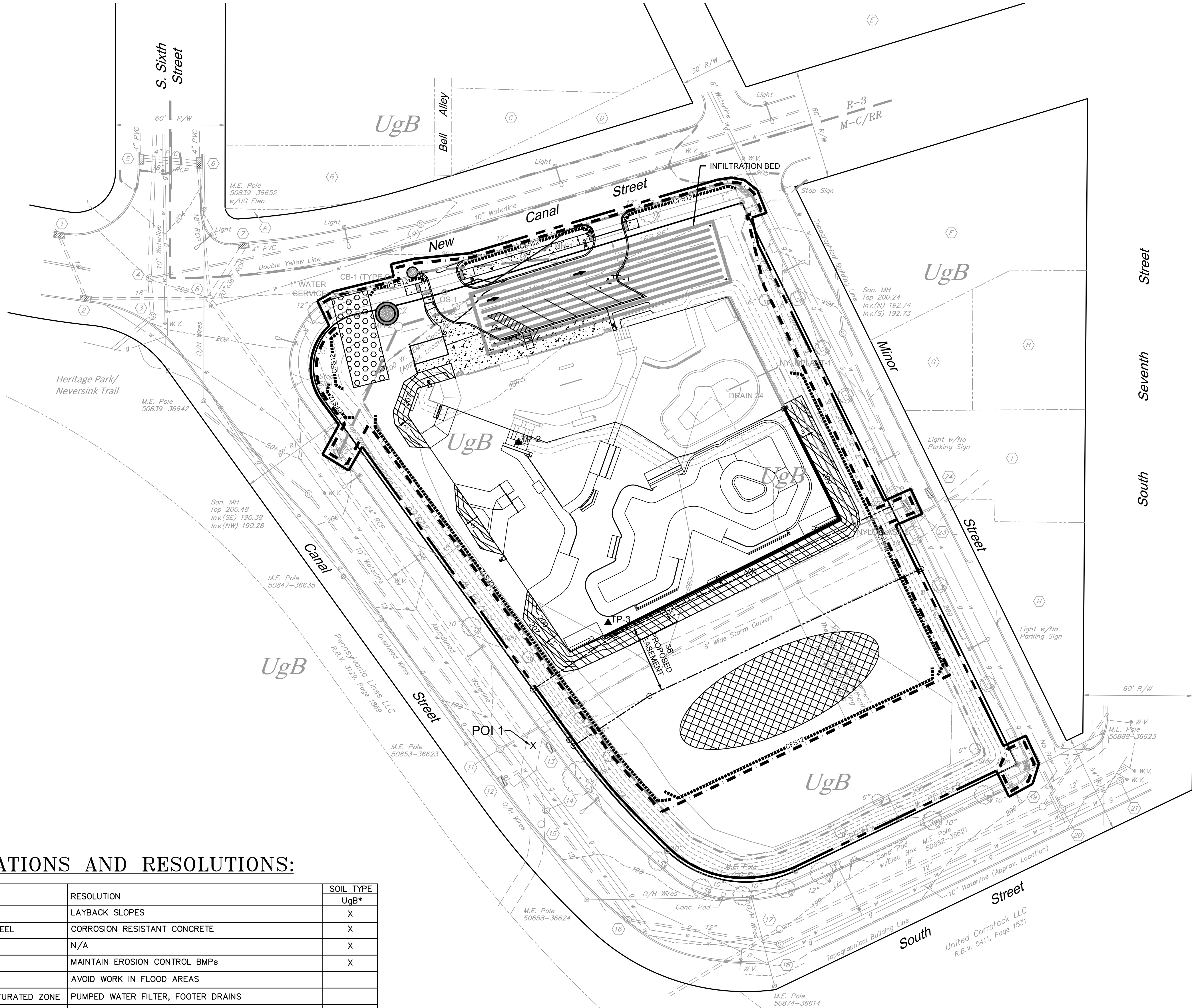
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SOIL LIMITATIONS AND RESOLUTIONS:

LIMITATION	RESOLUTION	SOIL TYPE
CUTBANKS CAVE	LAYBACK SLOPES	UgB*
CORROSIVE TO CONCRETE/STEEL	CORROSION RESISTANT CONCRETE	X
DROUGHTY	N/A	X
EASILY ERODIBLE	MAINTAIN EROSION CONTROL BMPs	X
FLOODING	AVOID WORK IN FLOOD AREAS	
DEPTH TO WATER TABLE/SATURATED ZONE	PUMPED WATER FILTER, FOOTER DRAINS	
HYDRIC/HYDRIC INCLUSIONS	AVOIDANCE, PUMPED WATER FILTER BAG, TRENCH PLUGS	
LOW STRENGTH/LANDSLIDE PRONE	LAYBACK SLOPES/DESIGN FOR CONDITIONS	X
SLOW PERCOLATION	DRAINAGE DITCH, PUMPED WATER FILTER BAG	X
PIPING	TRENCH PLUG	
POOR SOURCE OF TOPSOIL	AVOID REUSE AS TOPSOIL OR AMEND AS NECESSARY	X
FROST ACTION	CONSTRUCT BELOW FROST DEPTHS/POSITIVE SUBGRADE	X
SHRINK/SWELL	AVOID USE OF CLAY SOILS IN BUILDING AREAS	
POTENTIAL SINKHOLE	SINKHOLE MITIGATION TECHNIQUES	X
PONDING	PROVIDE POSITIVE DRAINAGE	
WETNESS	UTILIZE GOOD WEATHER/TEMPORARY DRAIN TILE	

\* SOIL LIMITATIONS BASED ON MINOR COMPONENT OF UDORTMENTS



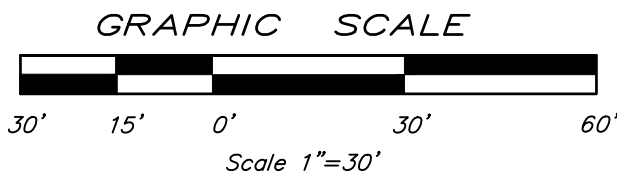
LOCATION MAP  
SCALE: 1" = 2000'

E&S LEGEND

- LIMIT OF DISTURBANCE
- NPDES PERMIT BOUNDARY
- CFS12----- COMPOST FILTER SOCK (12" DIAMETER)
- [Pattern] EROSION CONTROL BLANKET
- [Symbol] FILTER BAG INLET PROTECTION
- [Pattern] ROCK CONSTRUCTION ENTRANCE
- ReB / InB SOIL BOUNDARY AND TYPES
- [Pattern] TOPSOIL STOCKPILE AREA
- [Symbol] CONCRETE WASHOUT

SOILS

TYPE	DESCRIPTION
UgB	URBAN LAND, 0 TO 8% SLOPES



RELEASED FOR:

PRELIMINARY/FINAL



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Reading, PA 19607  
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GRINDLINE SKATEPARKS, INC.  
4619 14TH AVENUE SW, SEATTLE WA 98106

READING SKATEPARK  
EROSION & SEDIMENTATION CONTROL PLAN - PHASE 2

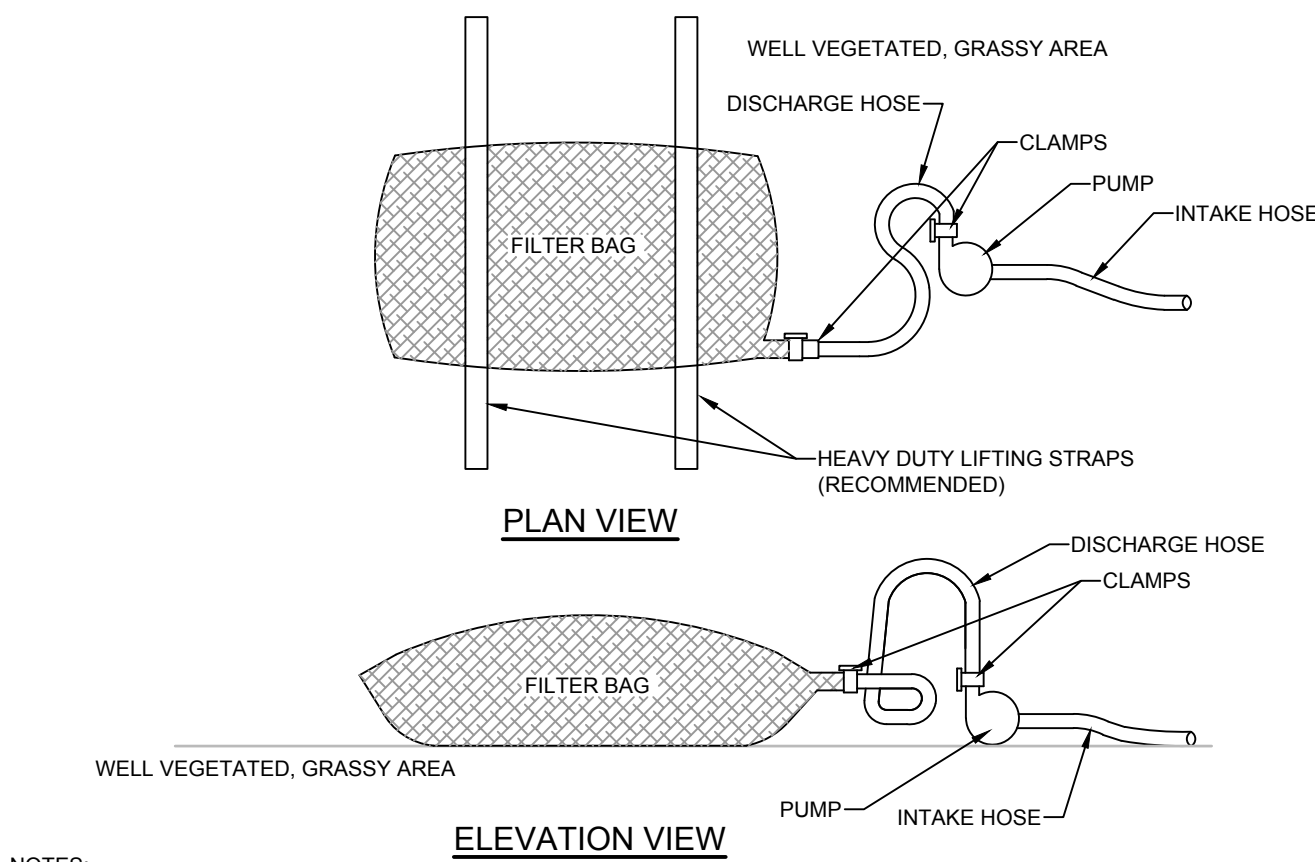
DATE: 07/13/20  
DIGITAL FILENAME: 110187.0001

WORK ORDER NUMBER: 110187.0001

C.2-51

DRAWING NUMBER





NOTES:

LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

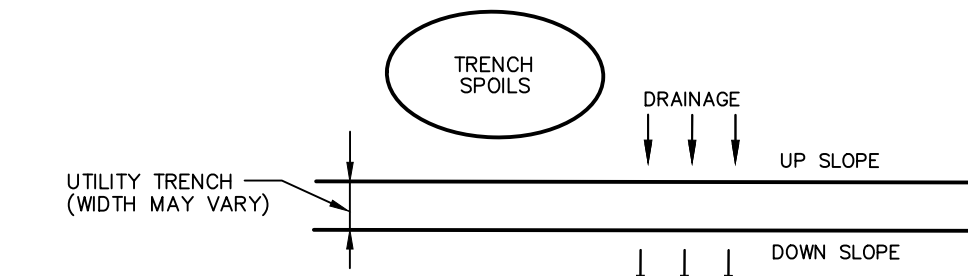
THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

#### STANDARD CONSTRUCTION DETAIL #3-16 PUMPED WATER FILTER BAG

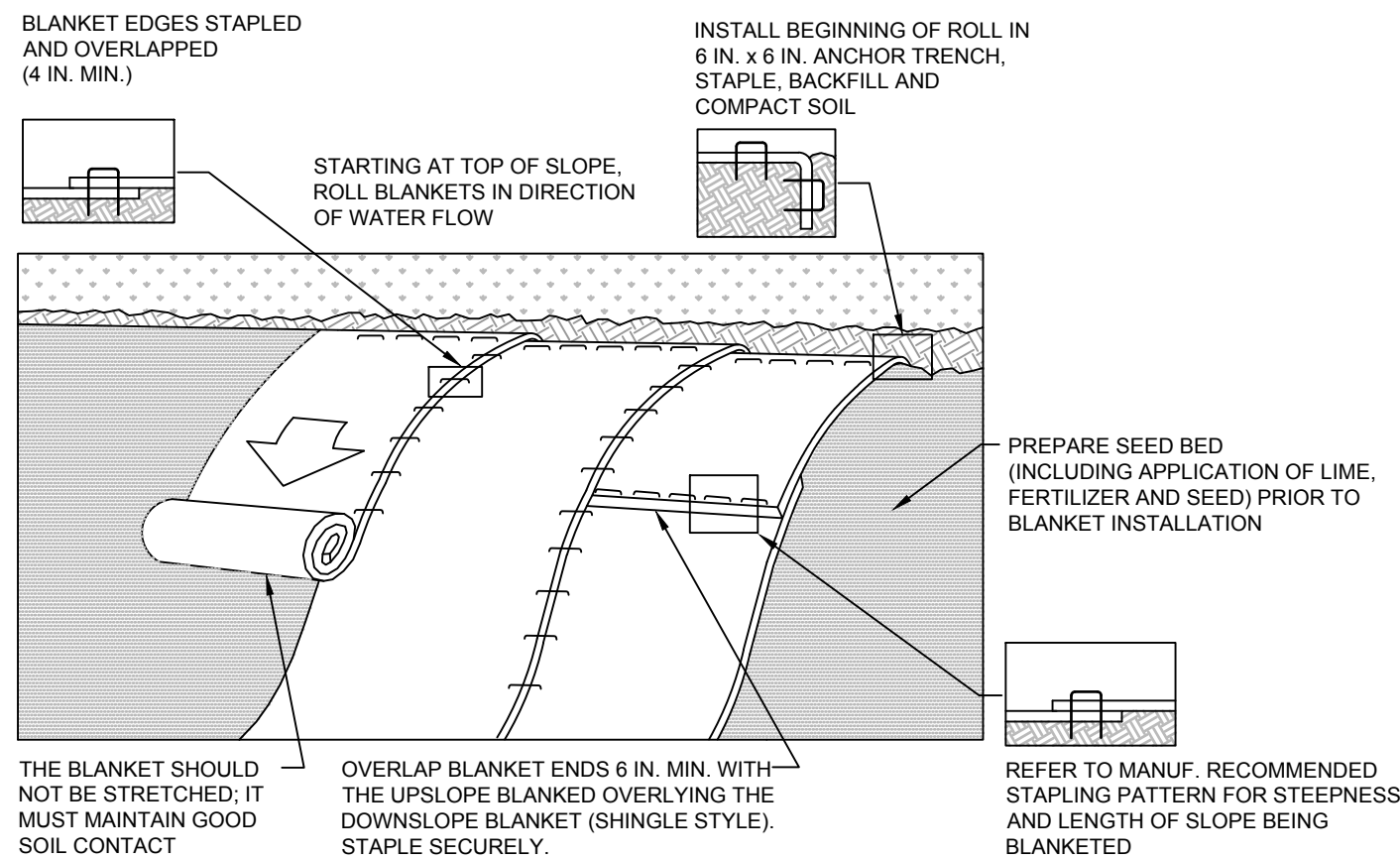
NOT TO SCALE



- NOTES:
1. ALL TRENCH SPOILS SHALL BE SIDE CAST ON THE UP SLOPE SIDE OF THE TRENCH.
  2. ALL DISTURBED AREAS SHALL BE STABILIZED PRIOR TO THE END OF EACH WORKING DAY (WITH COMPACTED GRAVEL, SEEDING AND MULCH, MULCH CONTROL NETTING OR RIP-RAP DEPENDING ON CONDITIONS AND LOCATION).

#### TRENCH SPOIL SIDE CAST DETAIL

NOT TO SCALE



NOTES:

SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDINGS TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.

PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.

SLOPE SURFACE SHALL BE FREE OF ROCKS, CLOUDS, STICKS, AND GRASS.

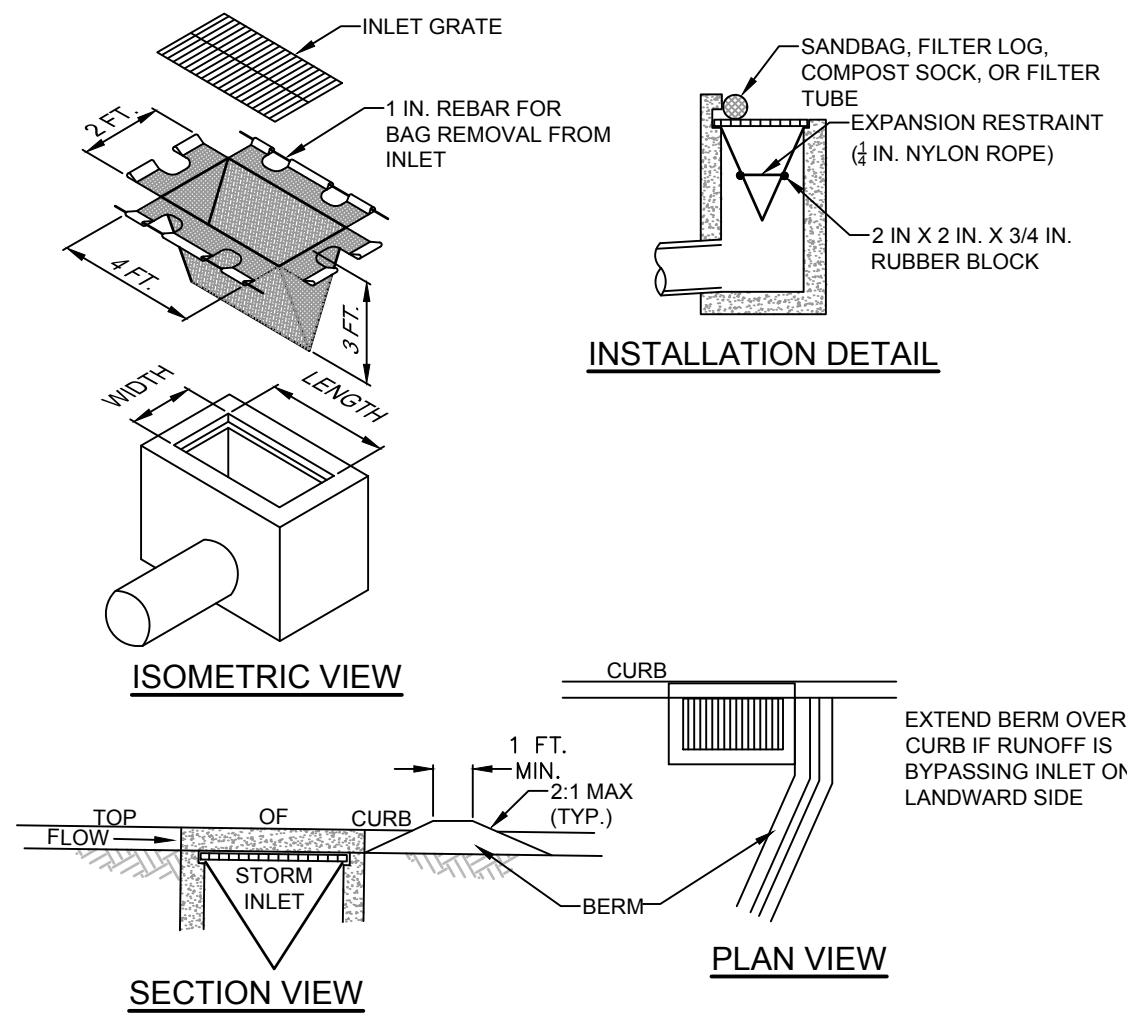
BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.

THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

#### STANDARD CONSTRUCTION DETAIL #11-1 EROSION CONTROL BLANKET INSTALLATION

NOT TO SCALE



NOTES:

MAXIMUM DRAINAGE AREA = 1/2 ACRE.

INLET PROTECTION SHALL NOT BE REQUIRED FOR INLET TRIBUTARY TO SEDIMENT BASIN OR TRAP. BERMS SHALL BE REQUIRED FOR ALL INSTALLATIONS.

ROLLED EARTHEN BERM SHALL BE MAINTAINED UNTIL ROADWAY IS STONED. ROAD SUBBASE BERM SHALL BE MAINTAINED UNTIL ROADWAY IS PAVED. SIX INCH MINIMUM HEIGHT ASPHALT BERM SHALL BE MAINTAINED UNTIL ROADWAY SURFACE RECEIVES FINAL COAT.

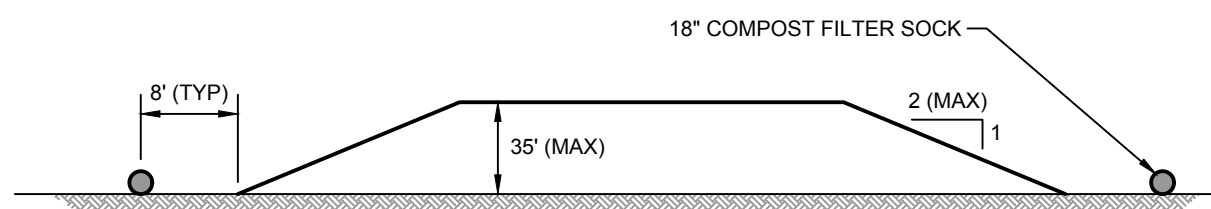
AT A MINIMUM, THE FABRIC SHALL HAVE A MINIMUM GRAB TENSILE STRENGTH OF 120 LBS. A MINIMUM BURST STRENGTH OF 200 PSI, AND A MINIMUM TRAPEZOIDAL TEAR STRENGTH OF 50 LBS. FILTER BAGS SHALL BE CAPABLE OF TRAPPING ALL PARTICLES NOT PASSING A NO. 40 SIEVE.

INLET FILTER BAGS SHALL BE INSPECTED ON A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT. BAGS SHALL BE EMPTIED AND RINSED OR REPLACED WHEN HALF FULL OR WHEN FLOW CAPACITY HAS BEEN REDUCED SO AS TO CAUSE FLOODING OR BYPASSING OF THE INLET. DAMAGED OR CLOGGED BAGS SHALL BE REPLACED. A SUPPLY SHALL BE MAINTAINED ON SITE FOR REPLACEMENT OF BAGS. ALL NEEDED REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION. DISPOSE OF ACCUMULATED SEDIMENT AS WELL AS ALL USED BAGS ACCORDING TO THE PLAN NOTES.

DO NOT USE ON MAJOR PAVED ROADWAYS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.

#### STANDARD CONSTRUCTION DETAIL #4-15 FILTER BAG INLET PROTECTION - TYPE C INLET

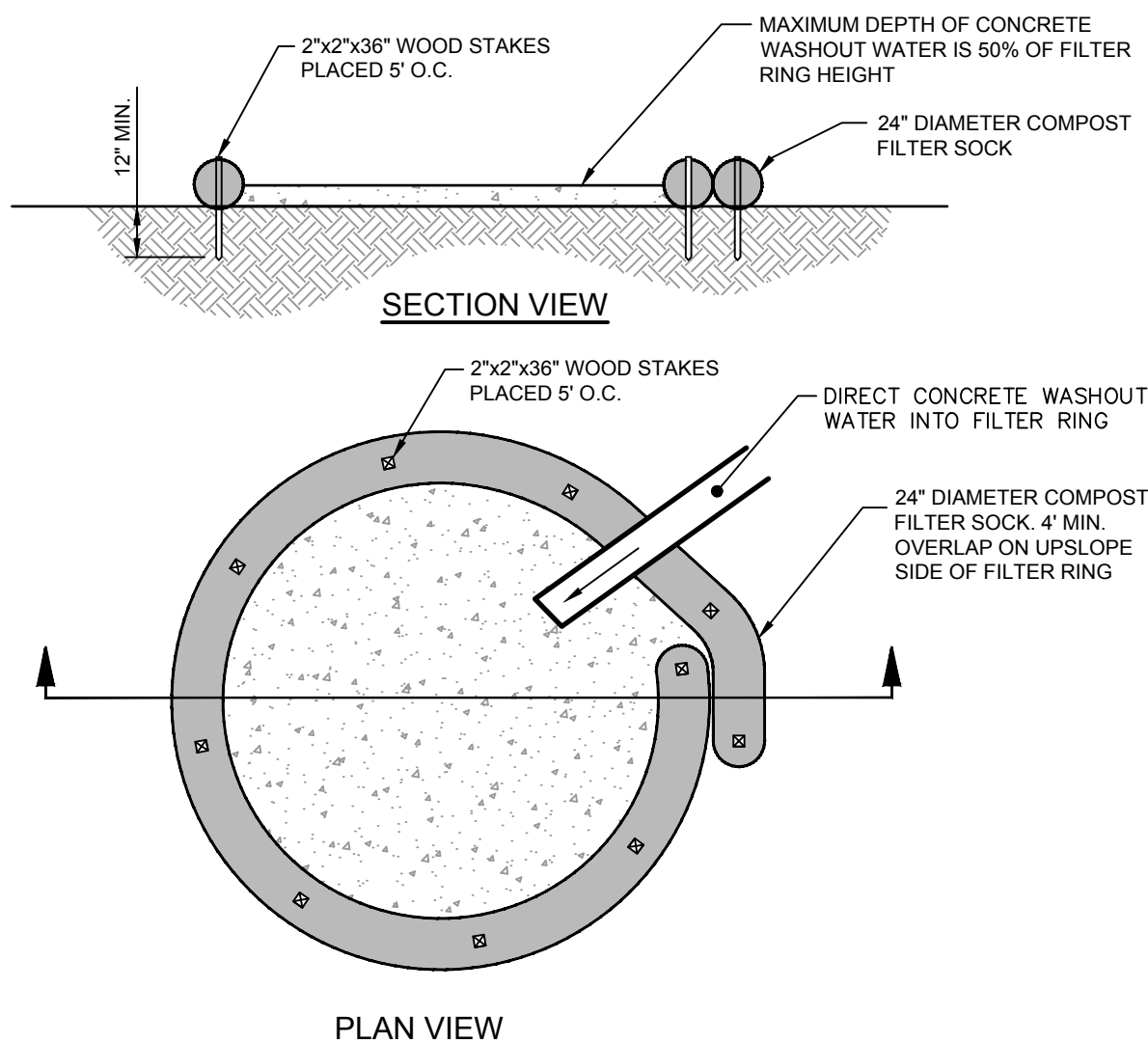
NOT TO SCALE



- NOTES:
1. STOCKPILE HEIGHT SHALL NOT EXCEED 35'.
  2. TOPSOIL STOCKPILES SHALL BE SEEDED IN ACCORDANCE WITH THE TEMPORARY SEEDING SPECIFICATIONS, AT THE END OF EACH WORKING DAY.
  3. STOCKPILES SHALL BE SURROUNDED BY 18" COMPOST FILTER SOCKS (OR THE DOWNSLOPE EDGE IF ON A SLOPE) ALONG EXISTING LEVEL GRADE AT LEAST 8' FROM THE BASE OF THE STOCKPILE SIDE SLOPES. ACCUMULATED SEDIMENT SHALL BE REMOVED ONCE IT REACHES 1/2 THE HEIGHT OF THE SOCKS.

#### TOPSOIL STOCKPILE

NOT TO SCALE

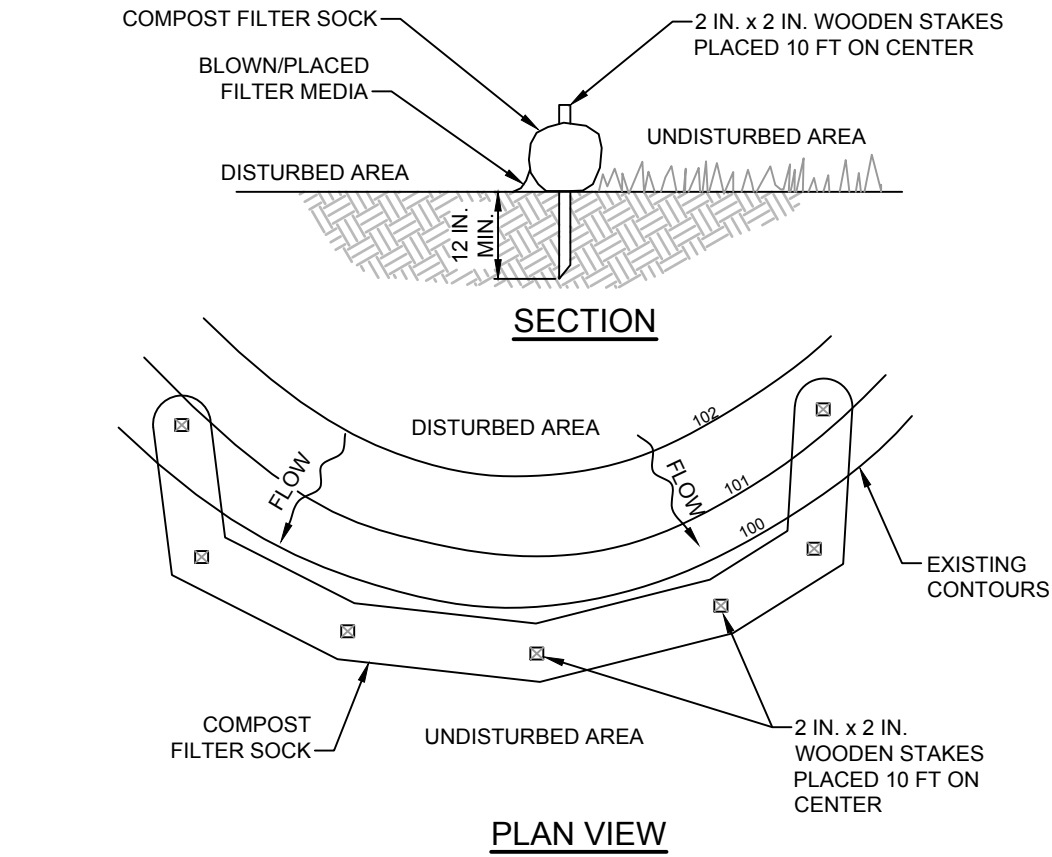


NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.
2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED 24" DIAMETER.

#### COMPOST SOCK WASHOUT

NOT TO SCALE



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

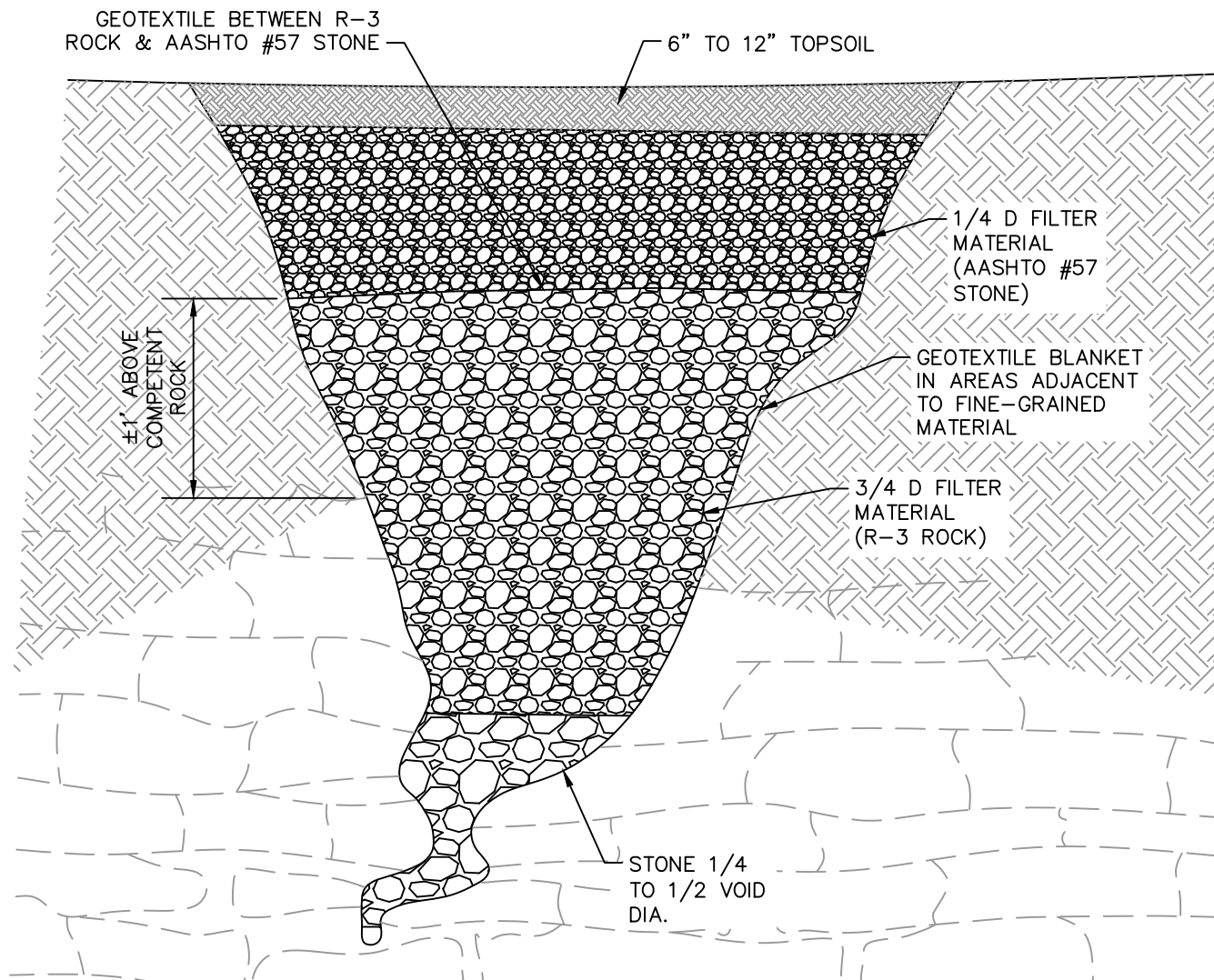
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

#### STANDARD CONSTRUCTION DETAIL #4-1 COMPOST FILTER SOCK

NOT TO SCALE

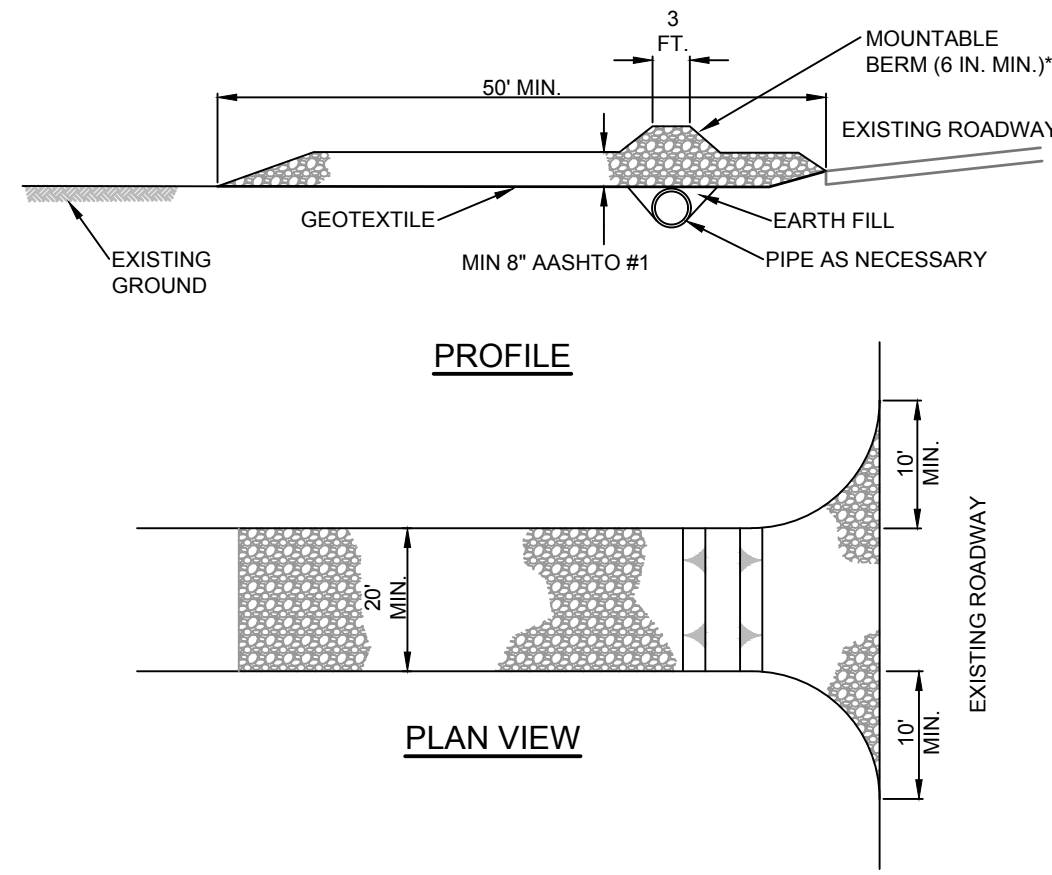


NOTES:

1. DUE TO THE VARIABLE NATURE OF SINKHOLES, THEY MUST BE REPAIRED UNDER THE DIRECT OBSERVATION AND SUPERVISION OF A LICENSED PROFESSIONAL GEOLOGIST OR LICENSED GEOTECHNICAL ENGINEER. THIS DETAIL IS PROVIDED ONLY AS A GENERAL GUIDELINE AND CAN BE MODIFIED AS NECESSARY BY THE LICENSED PROFESSIONAL.
2. LOOSE MATERIAL SHALL BE EXCAVATED FROM THE SINKHOLE AND EXPOSE SOLUTION VOID(S) IF POSSIBLE. ENLARGE SINKHOLE IF NECESSARY TO ALLOW FOR INSTALLATION OF FILTER MATERIALS. OSHA REGULATIONS MUST BE FOLLOWED AT ALL TIMES DURING EXCAVATION.
3. STONES USED FOR THE "BRIDGE" AND FILTERS SHALL HAVE A MODERATELY HARD ROCK STRENGTH AND BE RESISTANT TO ABRASION AND DEGRADATION. SHALE AND SIMILAR SOFT AND/OR NON-DURABLE ROCK ARE NOT ACCEPTABLE.

#### SINKHOLE REPAIR WITH A PERVIOUS COVER

NOT TO SCALE



\* MOUNTABLE BERM USED TO PROVIDE PROPER COVER FOR PIPE

NOTES:

REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.

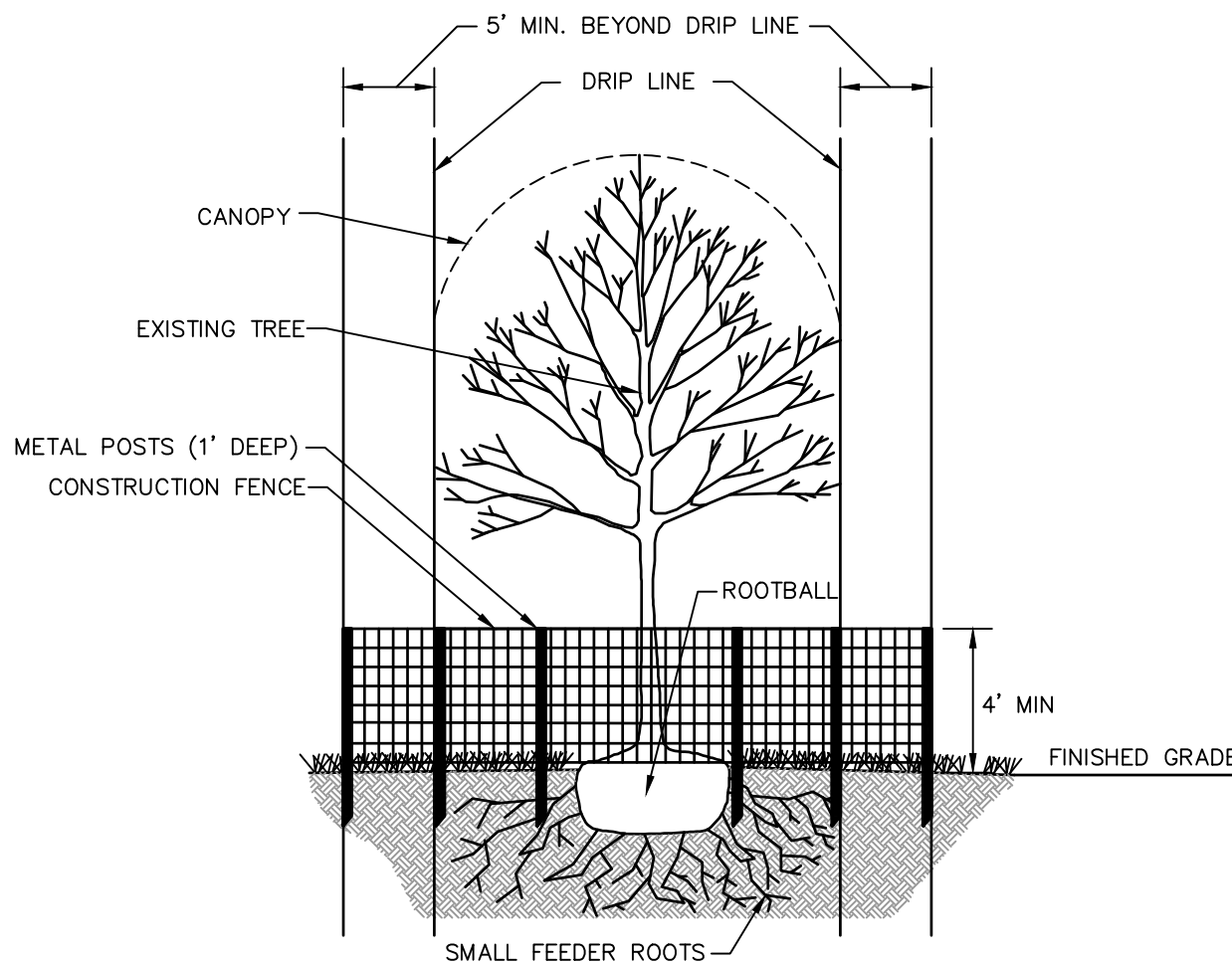
RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.

MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.

MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

#### STANDARD CONSTRUCTION DETAIL #3-1 ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE



NOTES:

1. TREES WITHIN 20 FEET OF PROPOSED EXCAVATION SHALL CONTAIN PROTECTIVE FENCING. ENGINEER SHALL SPECIFY LOCATIONS.
2. PROTECTIVE FENCE SHALL BE A MINIMUM OF 5 FEET BEYOND THE DRIP LINE OR EDGE OF CANOPY.
3. FENCE POSTS SHALL BE DRIVEN TO A 1 FOOT MINIMUM DEPTH. FENCE MATERIAL MAY BE PLASTIC ORANGE CONSTRUCTION FENCING OR AN EQUIVALENT.
4. NO BOARDS OR ROPES SHALL BE NAILED OR TIED TO TREE.
5. HEAVY EQUIPMENT OPERATORS SHALL AVOID DAMAGING ROOTS.
6. TREE LIMBS SHALL BE AVOIDED DURING CONSTRUCTION. IF DAMAGED DURING CONSTRUCTION, LIMBS SHALL BE PROPERLY PRUNED AND TREATED IMMEDIATELY.
7. DAMAGED TREES SHALL BE FERTILIZED TO AID IN THEIR RECOVERY.
8. CONSTRUCTION DEBRIS SHALL NOT BE STORED NEAR TREES OR WITHIN THE PROTECTIVE FENCING.
9. IF TREE IS DAMAGED BEYOND REPAIR DURING CONSTRUCTION THE TREE SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT HIS OR HER EXPENSE.
10. IF TREE IS REQUIRED TO BE REMOVED FOR CONTRACTIBILITY PURPOSES, THE MUNICIPALITY AND DESIGN ENGINEER SHALL BE NOTIFIED PRIOR TO REMOVAL. TREE REPLACEMENT AND LOCATION MAY BE REQUIRED AND SHALL BE DETERMINED BY THE MUNICIPALITY. NO TREE REMOVAL IS PERMITTED UNLESS APPROVED.

#### TREE PROTECTION FENCE DETAIL

NOT TO SCALE

RELEASED FOR:

PRELIMINARY/FINAL



GRINDLINE SKATEPARKS, INC.

4619 14TH AVENUE SW, SEATTLE WA 98108

READING SKATEPARK

EROSION & SEDIMENTATION CONTROL DETAILS

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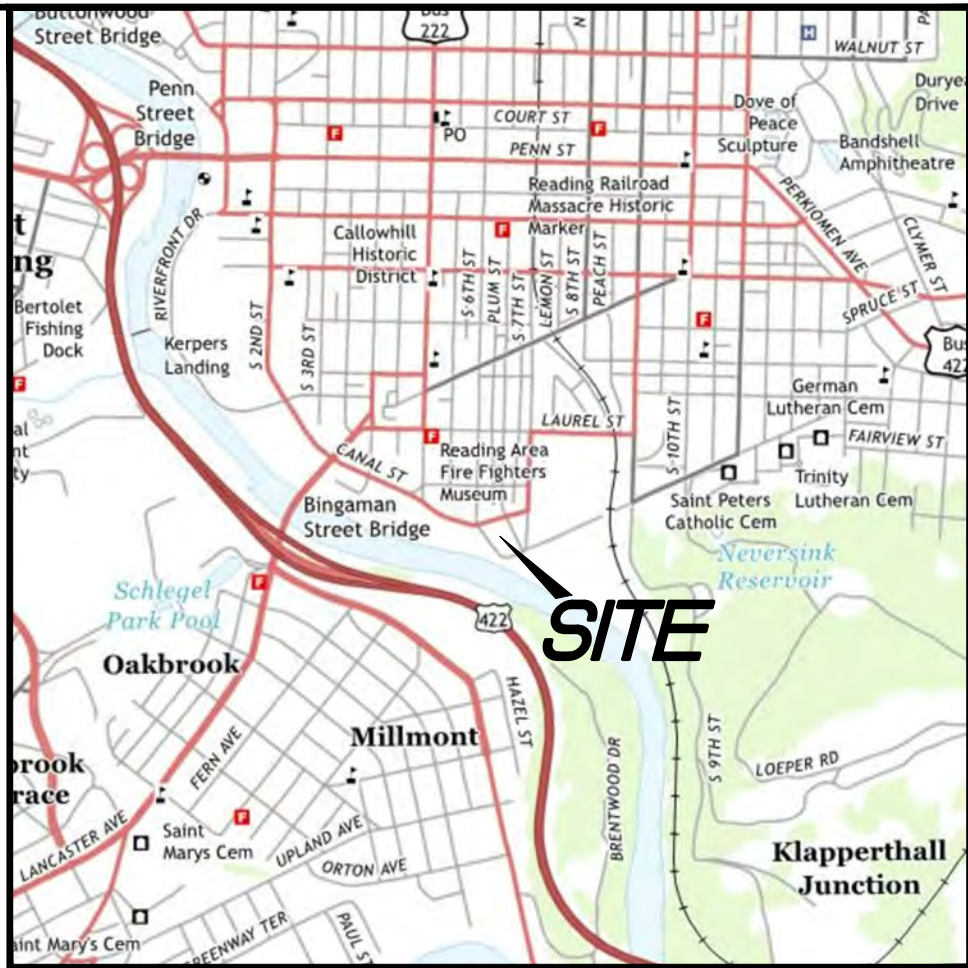
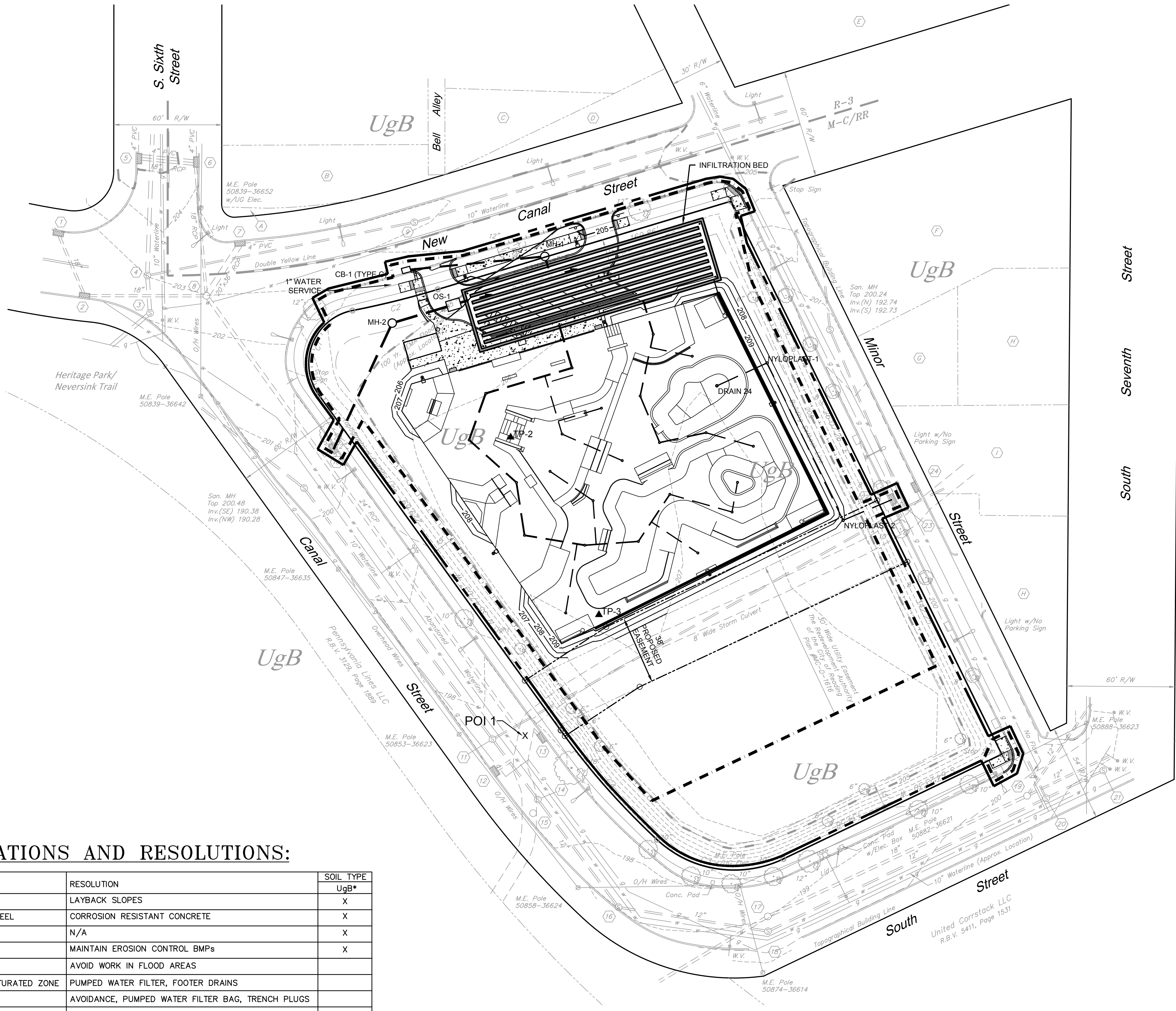
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DRAWING NUMBER



SOILS INFORMATION		23. UNTIL THE SITE IS STABILIZED, ALL E&S BMPs MUST BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL E&S BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS, ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADEING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED MUST BE REQUIRED IMMEDIATELY.		APPROVED BY THE GOVERNING CONSERVATION DISTRICT, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 102 REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS ONCE THEY HAVE BEEN IDENTIFIED.		BMP MAINTENANCE AND OPERATION PROGRAM		SEEDING AND MULCHING SCHEDULES		QUALIFIES AS CLEAN FILL PROVIDED THE TESTING REVEALS THAT THE FILL MATERIAL CONTAINS CONCENTRATIONS OF REGULATED SUBSTANCES THAT ARE BELOW THE RESIDENTIAL LIMITS IN TABLES FP-1A AND FP-1B FOUND IN THE DEPARTMENT'S POLICY "MANAGEMENT OF FILL."			
ACCORDING TO THE USDA NRCS WEB SOIL SURVEY, SITE SOILS INCLUDE URBAN LAND, URBAN LAND IS PAVEMENT, BUILDINGS, AND OTHER ARTIFICIALLY COVERED AREAS HUMAN TRANSPORTED MATERIAL. REFER TO APPENDIX C FOR A COPY OF THE WEB SOIL SURVEY. REFER TO THE TABLE ON THE E&S PLAN (SHEET C.2-50 AND C.2-51) FOR THE RESULTS OF SOIL LIMITATIONS AND RESOLUTIONS.		24. A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.		25. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPs TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT AND/OR THE SOUTH-CENTRAL REGIONAL OFFICE OF DEP.		26. UPON REDUCTION, LOSS OR FAILURE OF THE EROSION AND SEDIMENT CONTROLS, IMMEDIATE ACTION SHALL BE TAKEN TO RESTORE THE CONTROLS OR PROVIDE AN ALTERNATIVE METHOD OF CONTROL.		27. WHERE EROSION AND SEDIMENT CONTROLS ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING ANY OTHER INSPECTION, OR ANY OTHER TIME, THE GENERAL CONTRACTOR SHALL IMMEDIATELY CONTACT THE BERKS COUNTY CONSERVATION DISTRICT, BY PHONE OR PERSONAL CONTACT, FOLLOWED BY THE SUBMISSION OF A WRITTEN REPORT WITHIN FIVE (5) DAYS OF THE INITIAL CONTACT.		28. IN THE EVENT THAT ARCHEOLOGICAL ARTIFACTS ARE DISCOVERED, THE GENERAL CONTRACTOR SHALL ENSURE PROTECTION AND REPORT THE DISCOVERY TO THE OWNER AND THE DIRECTOR OF THE BUREAU OF HISTORIC PRESERVATION, HISTORICAL AND MUSEUM COMMISSION, P. O. BOX 1026, HARRISBURG, PA 17120.			
LAND USES: PAST, PRESENT, AND PROPOSED		29. IF SINKHOLES ARE ENCOUNTERED DURING CONSTRUCTION, THE OWNER SHALL RETAIN THE SERVICES OF A QUALIFIED GEOLOGIST OR GEOTECHNICAL ENGINEER FOR THEIR PROFESSIONAL OPINION AND REMEDIAL RECOMMENDATIONS.		30. IF SINKHOLES ARE ENCOUNTERED DURING CONSTRUCTION, THE OWNER SHALL RETAIN THE SERVICES OF A QUALIFIED GEOLOGIST OR GEOTECHNICAL ENGINEER FOR THEIR PROFESSIONAL OPINION AND REMEDIAL RECOMMENDATIONS.		31. UPON TEMPORARY CESSATION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY WHERE EARTH DISTURBANCE ACTIVITIES EXCEED 4 DAYS, THE SITE SHALL BE IMMEDIATELY SEEDED, MULCHED, OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND SEDIMENTATION.		32. IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING PERIODS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.		33. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATORS SHALL CONDUCT A FINAL INSPECTION OF THE PROJECT TO DETERMINE THAT THE EROSION AND SEDIMENT CONTROLS PRIOR TO THE REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROLS.			
RECEIVING WATERS OF THE COMMONWEALTH CH. 93 CLASSIFICATION		34. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.		35. ALTERNATE PRODUCTS TO THOSE SPECIFIED ON THE DRAWINGS MUST BE REVIEWED AND APPROVED AS EQUAL BY THE OWNER, ENGINEER AND CONSERVATION DISTRICT.		36. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260, §5260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.		37. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL, FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS; FILL INTENDED TO SUPPORT STRUCTURES, STAIRS AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.		38. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR SHALL ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE GOVERNING CONSERVATION DISTRICT, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 102 REGULATIONS. THE OPERATOR SHALL NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS ONCE THEY HAVE BEEN IDENTIFIED.			
DESCRIPTION OF BMPs		39. E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE BERKS COUNTY CONSERVATION DISTRICT OR DEP.		40. FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPs SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.		41. WITHIN 30 DAYS AFTER THE COMPLETION OF EARTH DISTURBANCE ACTIVITIES AUTHORIZED BY THIS PERMIT, INCLUDING THE PERMANENT STABILIZATION OF THE SITE AND PROPER INSTALLATION OF PCSM BMPs IN ACCORDANCE WITH THE APPROVED PCSM PLAN, OR UPON SUBMISSION OF THE NOT IF SOONER, THE PERMITTEE SHALL FILE WITH THE DEPARTMENT OR AUTHORIZED CONSERVATION DISTRICT A STATEMENT SIGNIFYING THAT THE EQUIPMENT WAS USED IN ACCORDANCE WITH THE PERMITTEE CERTIFYING THAT WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THIS PERMIT AND THE APPROVED E&S AND PCSM PLANS.		42. IF THE GENERAL CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 6A, EROSION CONTROL, RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.		43. A COPY OF THIS EROSION AND SEDIMENT CONTROL REPORT AND PLANS SHALL BE POSTED AT THE CONSTRUCTION SITE IN ACCORDANCE WITH PENNSYLVANIA STATE LAW.			
BMPs USED PRIOR TO CONSTRUCTION.		44. IF THE GENERAL CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 6A, EROSION CONTROL, RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.		45. A COPY OF THIS EROSION AND SEDIMENT CONTROL AND PLANS SHALL BE POSTED AT THE CONSTRUCTION SITE IN ACCORDANCE WITH PENNSYLVANIA STATE LAW.		46. IF THE GENERAL CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 6A, EROSION CONTROL, RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.		47. A COPY OF THIS EROSION AND SEDIMENT CONTROL AND PLANS SHALL BE POSTED AT THE CONSTRUCTION SITE IN ACCORDANCE WITH PENNSYLVANIA STATE LAW.		48. IF THE GENERAL CONTRACTOR IS ADVISED TO BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS OF APPENDIX 6A, EROSION CONTROL, RULES AND REGULATIONS, TITLE 25, PART 1, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SUB-PART C, PROTECTION OF NATURAL RESOURCES, ARTICLE III, WATER RESOURCES, CHAPTER 102, EROSION CONTROL.			
BMPs USED AFTER CONSTRUCTION.		49. AFTER ALL CONSTRUCTION ACTIVITIES ARE COMPLETE, ALL REMAINING DISTURBED AREAS WILL BE STABILIZED WITH PERMANENT SEEDING. AFTER FINAL STABILIZATION (MINIMUM UNIFORM 70% PERENNIAL VEGETATION COVER OR PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION AND SEDIMENTATION) HAS BEEN ACHIEVED, THE CONTRACTOR MUST REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS. ANY AREAS THAT ARE DISTURBED DURING REMOVAL OF TEMPORARY EROSION AND SEDIMENTATION MUST BE STABILIZED IMMEDIATELY. ALL PERMANENT CONTROL MEASURES USED AFTER CONSTRUCTION SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AND SPECIFICATIONS PROVIDED ON THE PLANS AND IN THIS REPORT. THE FOLLOWING PERMANENT CONTROL MEASURES WILL BE USED AFTER CONSTRUCTION:		50. PERMANENT STABILIZATION.		51. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS PROPOSED FOR THIS PROJECT. EROSION AND SEDIMENT CONTROLS SHALL BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE WITHIN THE TRIBUTARY AREAS OF THOSE CONTROLS.		52. ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT (E&S) PLAN, A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED) BY THE BERKS COUNTY CONSERVATION DISTRICT) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE DISTRICT MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.		53. CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BEST MANAGEMENT PRACTICES (BMPs) SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS E&S PLAN.		54. THE GENERAL CONTRACTOR SHALL NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION.	
RECEIVING WATERS OF THE COMMONWEALTH CH. 93 CLASSIFICATION		55. ALL CONSTRUCTION VEHICLES AND EQUIPMENT ACCESSING OR LEAVING THE LIMITS OF DISTURBANCE SHALL DO SO VIA A ROCK CONSTRUCTION ENTRANCE AT A LOCATION SHOWN ON THE PLANS OR WITHIN THE LIMITS OF DISTURBANCE UNTIL THE WORK IS STABILIZED. AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.		56. AREAS UTILIZED FOR CONSTRUCTION STAGING AND LAY DOWN SHALL BE STABILIZED AT ALL TIMES DURING CONSTRUCTION.		57. ALL STRIPPING OF VEGETATION, GRADING, FILLING AND EXCAVATION SHALL BE DONE IN SUCH A WAY AS TO MINIMIZE EROSION. WHEREVER NOTED ON THE PLANS, NATURAL VEGETATION SHALL BE RETAINED, PROTECTED AND SUPPLEMENTED. DISTURBED AREAS SHALL BE KEPT TO A PRACTICAL MINIMUM AND STABILIZED AS QUICKLY AS POSSIBLE IN ACCORDANCE WITH THE TEMPORARY OR PERMANENT MEASURES OUTLINED IN THE SEEDING AND MULCHING SCHEDULES.		58. AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER. STOCKPILES SHALL BE STABILIZED IMMEDIATELY.		59. STRAW MULCH MUST BE APPLIED AT RATES OF AT LEAST 3.0 TONS PER ACRE. STRAW MULCH SHOULD BE ANCHORED IMMEDIATELY AFTER APPLICATION TO PREVENT BEING WINDBLOWN.			
DESCRIPTION OF BMPs		60. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE, CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.		61. EROSION CONTROL, BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER, WITHIN 50 FEET OF A SURFACE WATER, AND ON ALL OTHER DISTURBED AREAS ACCORDING TO THE STANDARDS OF THIS PLAN.		62. ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.		63. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS. FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.		64. ALL EXCAVATION FOR UTILITY LINE INSTALLATION SHALL BE LIMITED TO THE AMOUNT THAT CAN BE EXCAVATED, INSTALLED, BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY. ALL EXCAVATED MATERIAL SHALL BE DEPOSITED ON THE UPSLOPE SIDE OF THE TRENCH.			
RECEIVING WATERS OF THE COMMONWEALTH CH. 93 CLASSIFICATION		65. CONCRETE WASH WATER SHALL BE HANDLED IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS. IN NO CASE SHALL IT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.		66. SEDIMENT REMOVED FROM EROSION AND SEDIMENT CONTROLS MAY BE USED AS TOPSOIL, IF SUITABLE, OR SHALL BE PROPERLY DISPOSED OF IN LANDSCAPED AREAS OUTSIDE OF STEEP SLOPES, WETLANDS, FLOODPLAINS AND DRAINAGE SWALES, OR DISPOSED OF LEGALLY OFFSITE.		67. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES, OR 6 TO 12 INCHES ON COMPACTED SOILS, PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 6 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL 3:1 OR GREATER SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.		68. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A DIRT BAG FILTRATION DEVICE (I.E. PUMPED WATER FILTER BAG), OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS DOWNSTREAM OF ANY EARTH DISTURBANCE. DISCHARGE POINTS SHALL BE ESTABLISHED TO PROVIDE FOR MAXIMUM DISTANCE TO ACTIVE WATERWAYS.		69. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.			
RECEIVING WATERS OF THE COMMONWEALTH CH. 93 CLASSIFICATION		70. STORMWATER RUNOFF SHALL BE PREVENTED FROM ENTERING STORM SEWER FACILITIES VIA AN OPEN TRENCH. IF ANY EMERGENCY REPAIRS/REPAIRMENT OF STORM SEWER FACILITIES MUST OCCUR, RUNOFF SHALL BE PREVENTED FROM ENTERING THE FACILITIES AT THE POINTS OF REPAIR/REPLACEMENT.		71. IF WATER IS ENCOUNTERED DURING EXCAVATION ACTIVITIES, PUMPED WATER FILTER BAGS SHALL BE USED TO REMOVE WATER FROM THE EXCAVATION. PUMPED WATER FILTER BAGS SHALL BE INSTALLED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH THE PROVIDED DETAIL.		72. IF WATER IS ENCOUNTERED DURING EXCAVATION ACTIVITIES, PUMPED WATER FILTER BAGS SHALL BE USED TO REMOVE WATER FROM THE EXCAVATION. PUMPED WATER FILTER BAGS SHALL BE INSTALLED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH THE PROVIDED DETAIL.		73. IF WATER IS ENCOUNTERED DURING EXCAVATION ACTIVITIES, PUMPED WATER FILTER BAGS SHALL BE USED TO REMOVE WATER FROM THE EXCAVATION. PUMPED WATER FILTER BAGS SHALL BE INSTALLED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH THE PROVIDED DETAIL.		74. IF WATER IS ENCOUNTERED DURING EXCAVATION ACTIVITIES, PUMPED WATER FILTER BAGS SHALL BE USED TO REMOVE WATER FROM THE EXCAVATION. PUMPED WATER FILTER BAGS SHALL BE INSTALLED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH THE PROVIDED DETAIL.			
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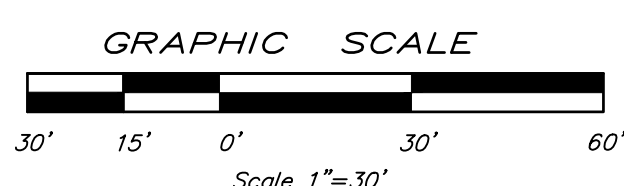




LOCATION MAP  
SCALE: 1" = 2000'

- PCSM LEGEND**
- LIMIT OF DISTURBANCE
  - NPDES PERMIT BOUNDARY
  - ReB / JnB SOIL BOUNDARY AND TYPES
  - ▲ TP-1 INFILTRATION TEST LOCATION

SOILS	
TYPE	DESCRIPTION
UgB	URBAN LAND, 0 TO 8% SLOPES



SOIL LIMITATIONS AND RESOLUTIONS:

LIMITATION	RESOLUTION	SOIL TYPE
CUTBANKS CAVE	LAYBACK SLOPES	UgB*
CORROSIVE TO CONCRETE/STEEL	CORROSION RESISTANT CONCRETE	X
DROUGHTY	N/A	X
EASILY ERODIBLE	MAINTAIN EROSION CONTROL BMPs	X
FLOODING	AVOID WORK IN FLOOD AREAS	
DEPTH TO WATER TABLE/SATURATED ZONE	PUMPED WATER FILTER, FOOTER DRAINS	
HYDRIC/HYDRIC INCLUSIONS	AVOIDANCE, PUMPED WATER FILTER BAG, TRENCH PLUGS	
LOW STRENGTH/LANDSLIDE PRONE	LAYBACK SLOPES/DESIGN FOR CONDITIONS	X
SLOW PERCOLATION	DRAINAGE DITCH, PUMPED WATER FILTER BAG	X
PIPING	TRENCH PLUG	
POOR SOURCE OF TOPSOIL	AVOID REUSE AS TOPSOIL OR AMEND AS NECESSARY	X
FROST ACTION	CONSTRUCT BELOW FROST DEPTHS/POSITIVE SUBGRADE	X
SHRINK/SWELL	AVOID USE OF CLAY SOILS IN BUILDING AREAS	
POTENTIAL SINKHOLE	SINKHOLE MITIGATION TECHNIQUES	X
PONDING	PROVIDE POSITIVE DRAINAGE	
WETNESS	UTILIZE GOOD WEATHER/TEMPORARY DRAIN TILE	

\* SOIL LIMITATIONS BASED ON MINOR COMPONENT OF UDORTMENTS

RELEASED FOR:  
**PRELIMINARY/FINAL**



**SSM**  
SPOTTS, STEVENS & MCCOY  
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**GRINDLINE SKATEPARKS, INC.**  
4619 14TH AVENUE SW, SEATTLE WA 98106

**READING SKATEPARK**  
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN

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DATE DIGITAL FILENAME

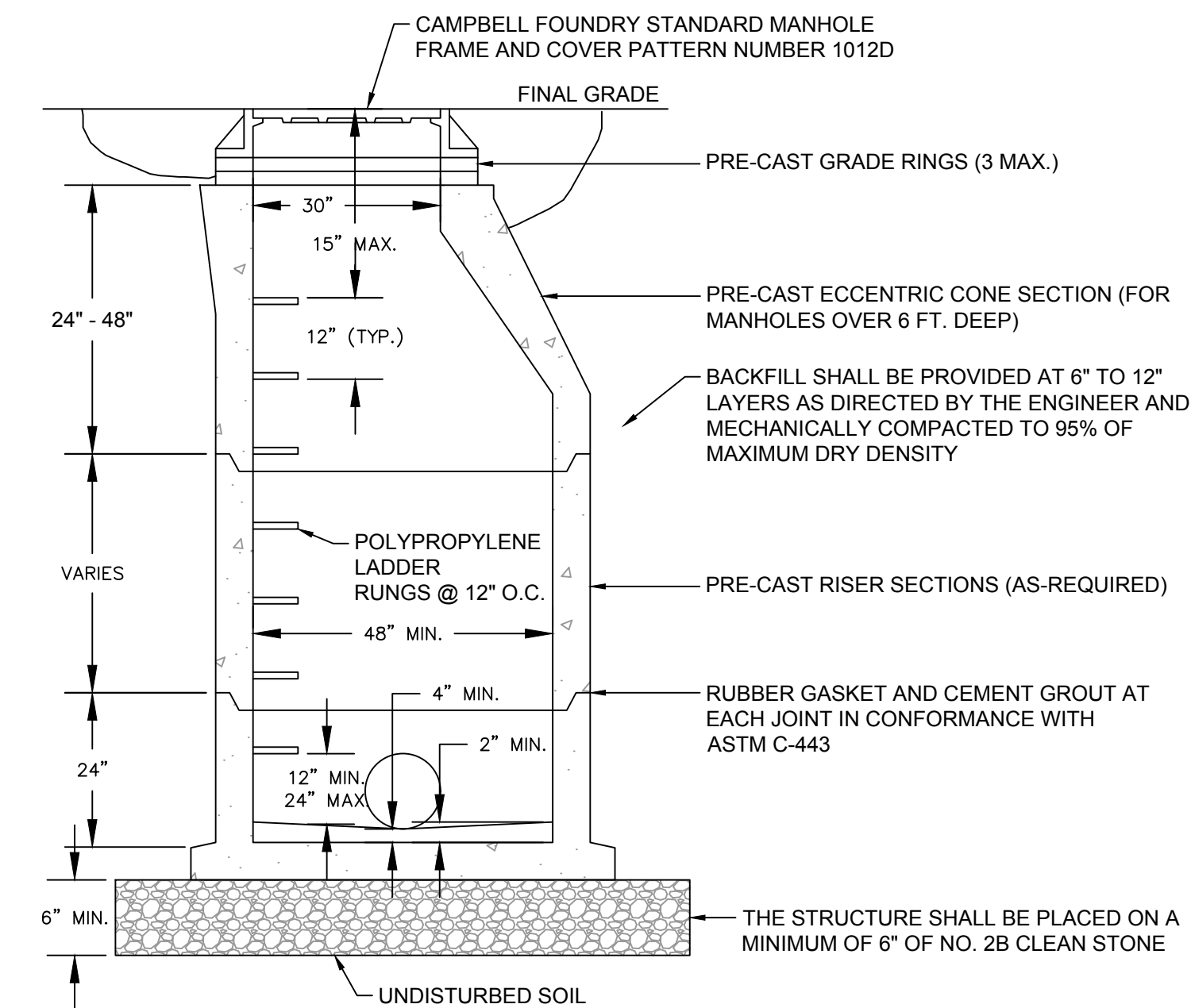
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WORK ORDER NUMBER

**C.2-60**

DRAWING NUMBER

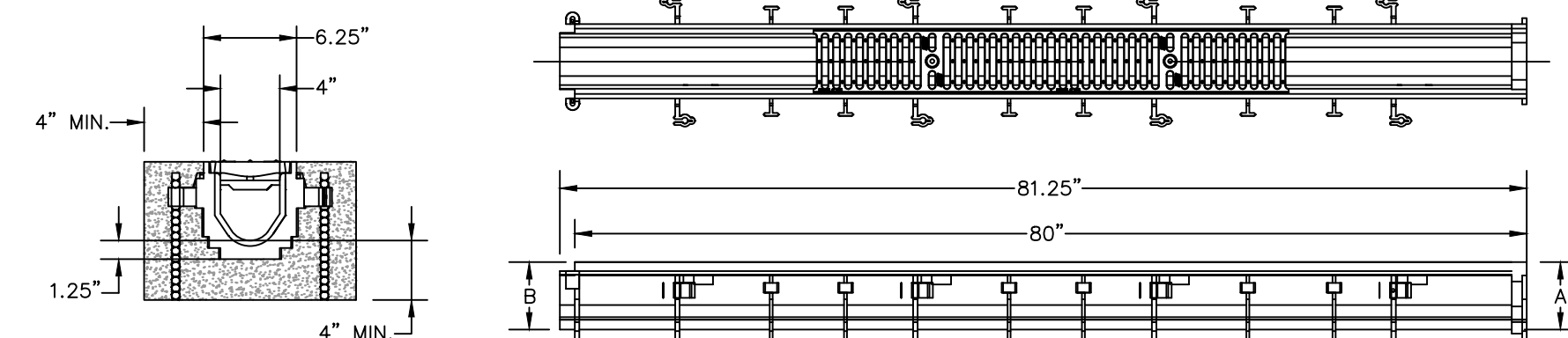




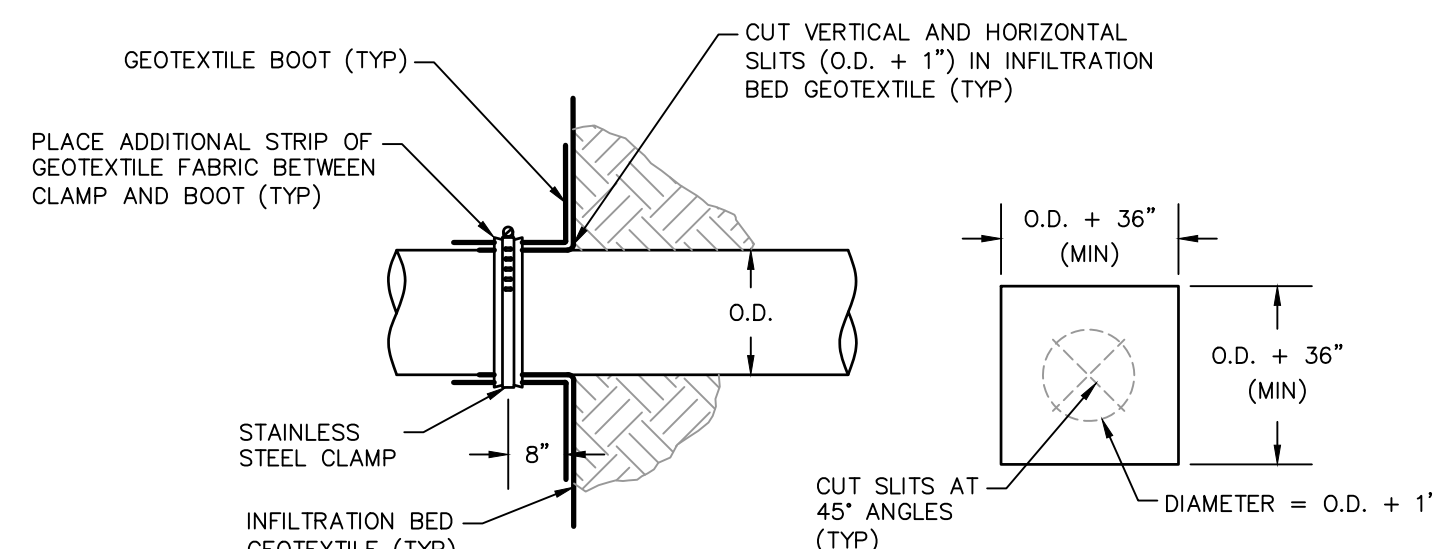
### STORM MANHOLE DETAIL

NO SCALE

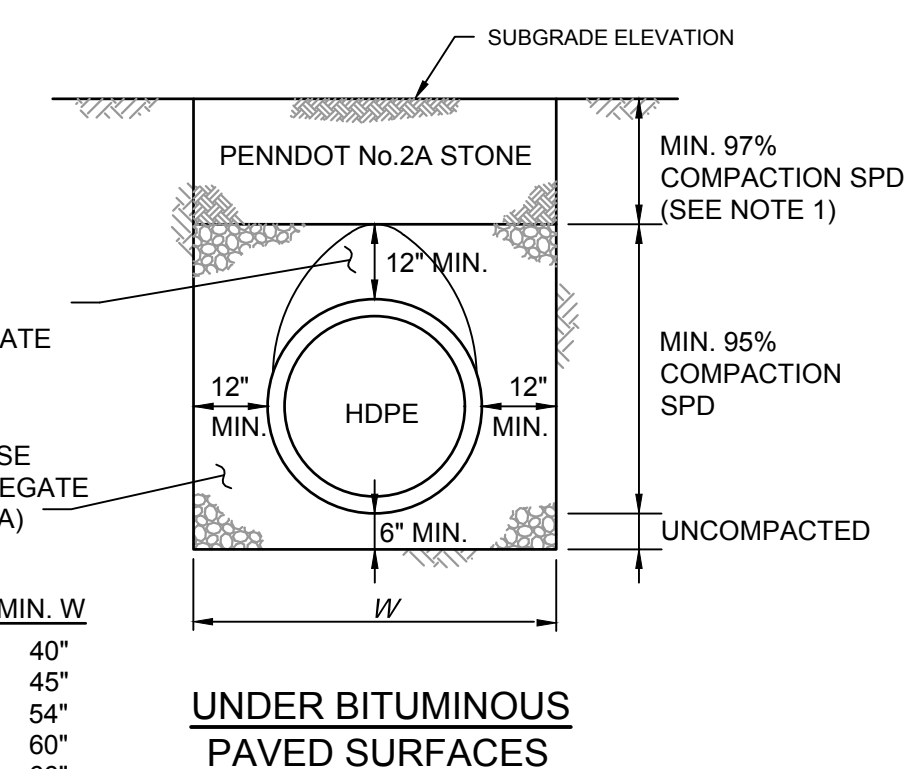
- NOTES:  
1. TRENCH DRAIN SHALL BE MODEL Z886 AS MANUFACTURED BY ZURN.  
2. CONSTRUCT TRENCH DRAIN AND CONCRETE ENCASEMENT IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.



### OUTLET STRUCTURE OS-1 DETAIL



## CROSS-COUNTRY INSTALLATIONS



INFILTRATION BED - SECTION

- NOTES:**
1. COMPACT TOP 36" TO 100% PER PENNDOT PUBLICATION 408, SECTION 206.3.
  2. SPD IS STANDARD PROCTOR DENSITY.

[illegible]

GRINDLINE SKATEPARKS, INC.

READING SKATEPARK

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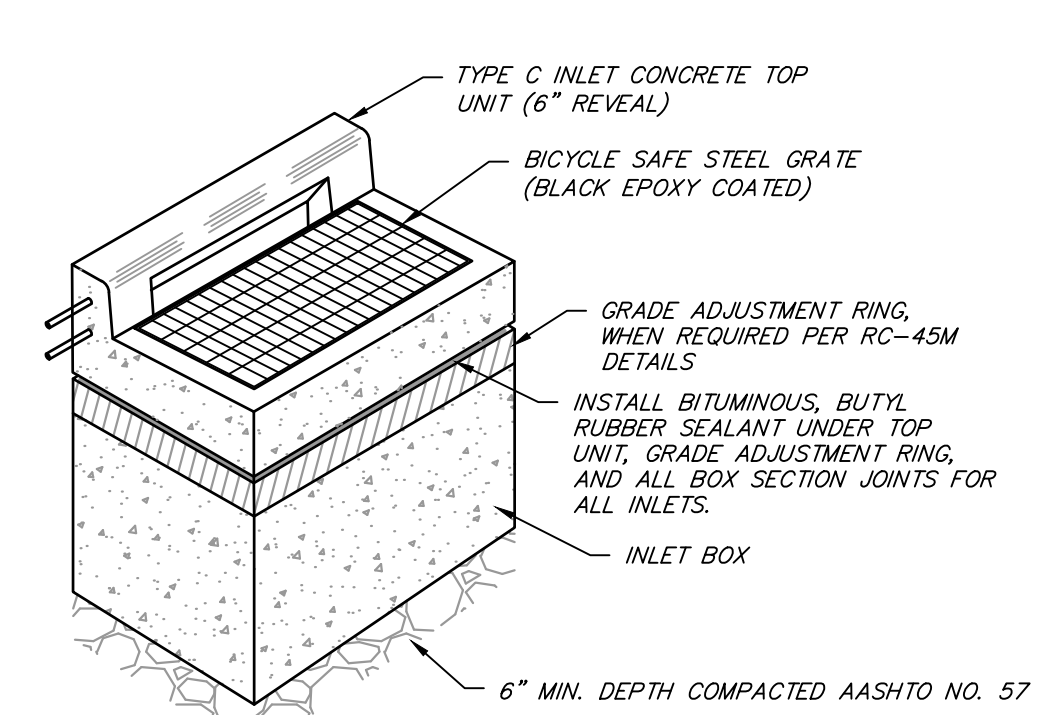
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**WORK ORDER NUMBER**

C.2-61

DRAWING NUMBER





- NOTES:
1. ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH PENNDOT PUB 408 SPECIFICATIONS AND PENNDOT PUB 72M (RC STANDARDS).
  2. INLETS DEEPER THAN 4" SHALL HAVE LADDER RUNGS.

TYPE C INLET  
NO SCALE

OPERATION AND MAINTENANCE NOTES

UNTIL THE PERMITTEE OR CO-PERMITTEE HAS RECEIVED WRITTEN APPROVAL OF A NOTICE OF TERMINATION, THE PERMITTEE OR CO-PERMITTEE WILL REMAIN RESPONSIBLE FOR COMPLIANCE WITH THE PERMIT TERMS AND CONDITIONS INCLUDING LONG-TERM OPERATION AND MAINTENANCE OF ALL PCSM BMPs ON THE PROJECT SITE AND IS RESPONSIBLE FOR VIOLATIONS OCCURRING ON THE PROJECT SITE.

THE PERMITTEE OR CO-PERMITTEE SHALL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs UNLESS A DIFFERENT PERSON IS IDENTIFIED IN THE NOTICE OF TERMINATION AND HAS AGREED TO LONG-TERM OPERATION AND MAINTENANCE OF PCSM BMPs.

FOR ANY PROPERTY CONTAINING A PCSM BMP, THE PERMITTEE OR CO-PERMITTEE SHALL RECORD AN INSTRUMENT WITH THE RECORDER OF DEEDS WHICH WILL ASSURE DISCLOSURE OF THE PCSM BMP AND THE RELATED OBLIGATIONS IN THE ORDINARY COURSE OF A TITLE SEARCH OF THE SUBJECT PROPERTY. THE RECORDED INSTRUMENT MUST IDENTIFY WITH THE PCSM BMP, PROVIDE FOR NECESSARY ACCESS RELATED TO LONG-TERM OPERATION AND MAINTENANCE FOR PCSM BMPs AND PROVIDE NOTICE THAT THE RESPONSIBILITY FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP IS A COVENANT THAT RUNS WITH THE LAND THAT IS BINDING UPON AND ENFORCEABLE BY SUBSEQUENT GRANTEE, AND PROVIDE PROOF OF FILING WITH THE NOTICE OF TERMINATION UNDER §102.7(b)(5) (RELATING TO PERMIT TERMINATION).

THE PERSON RESPONSIBLE FOR PERFORMING LONG-TERM OPERATION AND MAINTENANCE MAY ENTER INTO AN AGREEMENT WITH ANOTHER PERSON INCLUDING A CONSERVATION DISTRICT, NONPROFIT ORGANIZATION, MUNICIPALITY, AUTHORITY, PRIVATE CORPORATION, OR OTHER PERSON, TO TRANSFER THE RESPONSIBILITY FOR PCSM BMPs OR TO PERFORM LONG-TERM OPERATION AND MAINTENANCE AND PROVIDE NOTICE THEREOF TO THE DEPARTMENT.

A PERMITTEE OR CO-PERMITTEE THAT FAILS TO TRANSFER LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMP OR OTHERWISE FAILS TO COMPLY WITH THIS REQUIREMENT SHALL REMAIN JOINTLY AND SEVERALLY RESPONSIBLE WITH THE LANDOWNER FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs LOCATED ON THE PROPERTY.

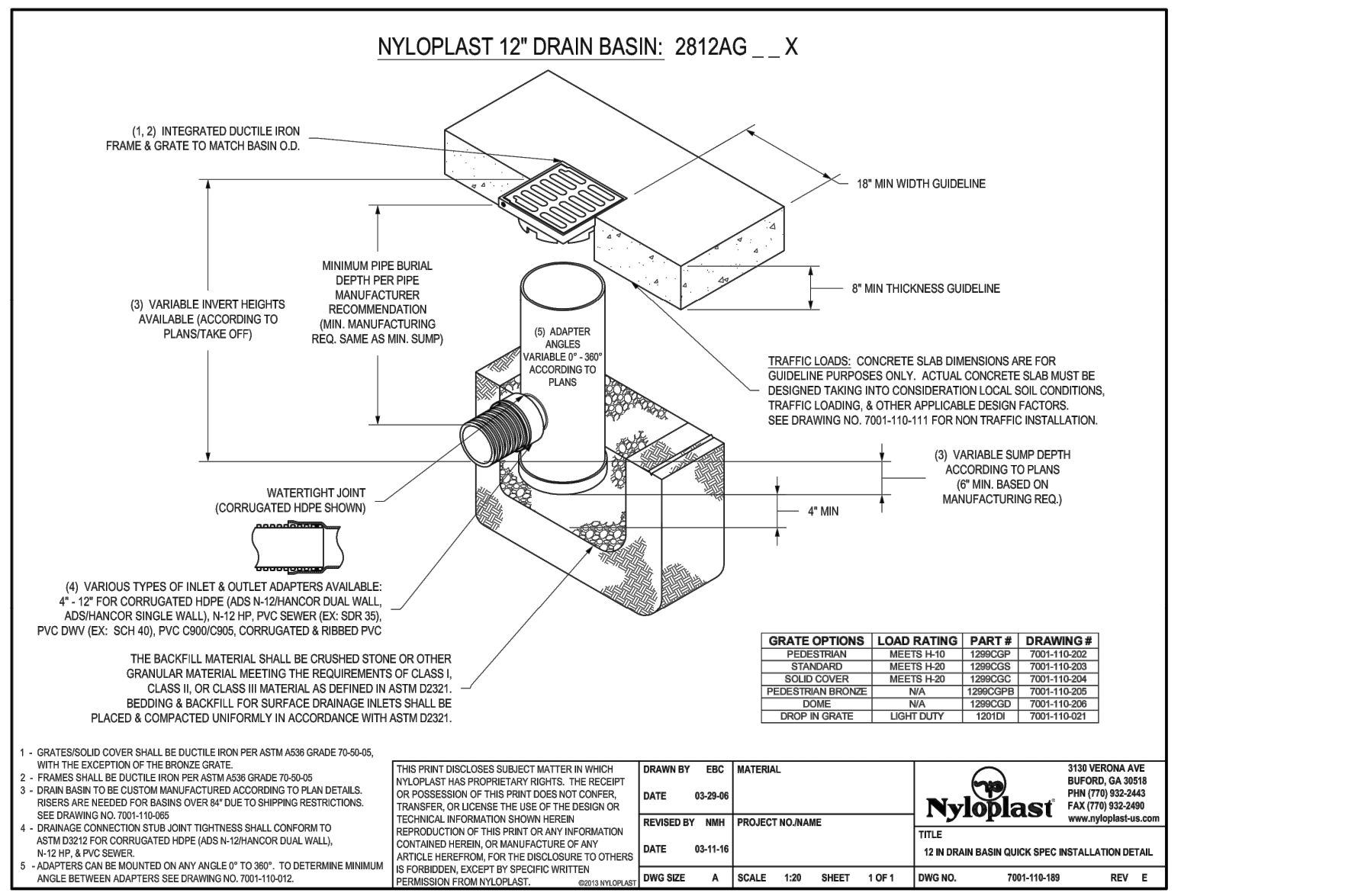
INSPECTIONS SHALL BE PERFORMED AS NOTED FOR EACH BMP AND ANNUALLY. A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES SHALL BE PROVIDED ANNUALLY.

UNDERGROUND INFILTRATION BED

1. THE LOT OWNER OF RECORD IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE UNDERGROUND INFILTRATION BED AND FOR PROVIDING A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES.
2. VEGETATED AREAS THAT ARE TRIBUTARY TO THE INFILTRATION BED SHALL BE MAINTAINED IN GOOD CONDITION. AREAS DEVOID OF VEGETATION (BARE SPOTS) SHALL BE REVEGETATED IMMEDIATELY UPON DISCOVERY.
3. ALL OUTLET STRUCTURES, INLETS, MANHOLES, CLEANOUTS, AND ANY OTHER STRUCTURES ASSOCIATED WITH OR UPSTREAM OF THE BED SHALL BE INSPECTED FOR LITTER AND SEDIMENT ACCUMULATION EVERY SIX (6) MONTHS AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (GREATER THAN 1 INCH OF RAINFALL). ANY DAMAGE OR BLOCKAGE TO THE INLETS OR OTHER STRUCTURES SHALL ALSO BE REPAIRED OR REMOVED. ALL MAINTENANCE, INCLUDING BUT NOT LIMITED TO, REMOVAL OF TRASHLITTER, REMOVAL OF SEDIMENT ACCUMULATION, REMOVAL OF MISCELLANEOUS DEBRIS, AND REPAIR/SEAL CRACKS IN CONCRETE STRUCTURES MUST BE INITIATED IMMEDIATELY AFTER THE INSPECTION. THE LITTER AND SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED MANNER AND IN ACCORDANCE WITH APPLICABLE STATE REGULATIONS.
4. THE INFILTRATION BED SHALL BE INSPECTED EVERY SIX (6) MONTHS AND WITHIN 48 HOURS AFTER EVERY MAJOR STORM EVENT (GREATER THAN 1 INCH OF RAINFALL) FOR LITTER AND SEDIMENT ACCUMULATION IN THE BED. EXCESSIVE LITTER AND SEDIMENT ACCUMULATION SHALL BE REMOVED IMMEDIATELY AFTER THE INSPECTION AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE STATE REGULATIONS.
5. THE INFILTRATION BED SHALL COMPLETELY DRAIN DOWN IN LESS THAN 72 HOURS FROM THE END OF A RAINFALL EVENT. IF THE FACILITY DOES NOT COMPLETELY DRAIN DOWN WITHIN 72 HOURS, THE DESIGN ENGINEER SHALL BE CONTACTED TO DETERMINE THE APPROPRIATE REMEDIATION MEASURE.

STORM SEWER SYSTEM

1. THE LOT OWNER OF RECORD IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORM SEWER SYSTEM AND FOR PROVIDING A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES.
2. ALL ONSITE INLETS, MANHOLES, JUNCTION BOXES, END WALLS, AND PIPING SHALL BE INSPECTED FOR LITTER AND SEDIMENT ACCUMULATION EVERY SIX (6) MONTHS OR WHEN ACCUMULATION HINDERS OPERATION OF THE FACILITY. ALL MAINTENANCE, INCLUDING BUT NOT LIMITED TO, REMOVAL OF TRASHLITTER, REMOVAL OF SEDIMENT ACCUMULATION, REMOVAL OF MISCELLANEOUS DEBRIS, AND REPAIR/SEAL CRACKS IN CONCRETE STRUCTURES MUST BE INITIATED IMMEDIATELY AFTER THE INSPECTION. SYSTEMS SHALL BE FLUSHED EVERY FIVE (5) YEARS. THE LITTER AND SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED MANNER AND IN ACCORDANCE WITH APPLICABLE STATE REGULATIONS.
3. VEGETATED AREAS THAT ARE TRIBUTARY TO THE STORM SEWER SYSTEM SHALL BE MAINTAINED IN GOOD CONDITION. AREAS DEVOID OF VEGETATION (BARE SPOTS) SHALL BE REVEGETATED IMMEDIATELY UPON DISCOVERY.



GRATE INLET SKIMMER BOX INSERT

1. THE LOT OWNER OF RECORD IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE GRATE INLET SKIMMER BOX INSERTS AND FOR PROVIDING A WRITTEN REPORT DOCUMENTING EACH INSPECTION AND ALL BMP REPAIR AND MAINTENANCE ACTIVITIES.
2. ROUTINE QUARTERLY MAINTENANCE SHALL CONSIST OF THE FOLLOWING MEASURES AND GUIDELINES, AS PROVIDED BY THE MANUFACTURER:
  - A. REMOVE THE INLET GRATE.
  - B. REMOVE THE SKIMMER TRAY.
  - C. CUT ZIP TIES AND REMOVE THE STORM BOOM FROM THE SKIMMER TRAY AND THEN DISPOSE OF BOOM. REMOVE ALL DEBRIS FROM THE SKIMMER TRAY.
  - D. ATTACH NEW STORM BOOM TO SKIMMER TRAY WITH ZIP TIES. (STORM BOOM MAY BE CUT TO LENGTH AND END SECURED WITH ZIP TIES.)
  - E. REMOVE THE FILTRATION BOX FROM THE INLET, DUMP CONTENTS INTO TRASH CONTAINER, AND BRUSH SCREENS CLEAN.
  - F. PLACE FILTRATION BOX INTO INLET, PLACE SKIMMER TRAY INTO FILTRATION BOX, AND RESET INLET GRATE.
3. ALL LITTER, SEDIMENT, AND DEBRIS REMOVED FROM THE INLET SHALL BE DISPOSED OF IN AN APPROVED MANNER AND IN ACCORDANCE WITH APPLICABLE STATE REGULATIONS.

CONSTRUCTION SEQUENCE - UNDERGROUND INFILTRATION BED

1. THE AREA TO BE USED FOR STORMWATER INFILTRATION (HEREAFTER, "SUBJECT AREA") SHALL BE DELINEATED WITH ORANGE SAFETY FENCE PRIOR TO START OF CONSTRUCTION TO PREVENT COMPACTION OF THE AREA.
2. THE SUBJECT AREA SHALL BE PROTECTED DURING CONSTRUCTION. SEDIMENT SHALL NOT BE ALLOWED TO BE WASHED BACK INTO THE SUBJECT AREA WHEN THE BOTTOM OF THE FACILITY IS EXCAVATED. THE AGGREGATE IS IN PLACE AND EXPOSED. DURING SITE CONSTRUCTION, ALL INFILTRATION FACILITY COMPONENTS SHALL BE PROTECTED FROM SEDIMENTATION USING STORM INLET PROTECTION IN CONFORMANCE WITH THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CHAPTER 102 REGULATIONS, AS AMENDED, AND THE EROSION AND SEDIMENTATION POLLUTION CONTROL MANUAL, AS AMENDED. INLET PROTECTION SHALL REMAIN UNTIL THE CONTRIBUTORY DRAINAGE AREA HAS ACHIEVED FULL STABILIZATION.
3. EXCAVATE TO THE PROPOSED SUBGRADE ELEVATION OF THE BED. COMPACTION OF THE SUBJECT AREA IS PROHIBITED. EQUIPMENT AND OTHER TRAFFIC SHALL BE PROHIBITED FROM TRAVELING OVER THE SUBJECT AREA, EXCEPT AS PROVIDED FOR HEREIN. ONLY HAND-HELD EQUIPMENT SHALL BE USED WITHIN THE SUBJECT AREA. OTHER EQUIPMENT MAY BE USED AROUND THE PERIMETER, BUT OUTSIDE OF THE SUBJECT AREA FOR PURPOSES OF EXCAVATION AND TO SUPPLY SOILS AND AGGREGATE. WHERE THE CONFIGURATION OF THE FACILITY DICTATES THAT ANYTHING OTHER THAN HAND HELD EQUIPMENT MUST OPERATE WITHIN THE SUBJECT AREA, EXCAVATION AND FILL PLACEMENT SHALL BE ACCOMPLISHED SUCH THAT THE HEAVY EQUIPMENT IS NEVER WITHIN THE SUBJECT AREA. FOR EXCAVATION OPERATIONS, THE EXCAVATOR SHALL WORK FROM HIGHER GROUND AND PROCEED IN A BACKWARDS DIRECTION, MOVING AWAY FROM THE FINISHED EXCAVATION AREA, FOR FILL OPERATIONS, AGGREGATE SHALL BE PLACED STARTING AT THE PERIMETER OF THE SUBJECT AREA AND PUSHED FORWARD, SUCH THAT EQUIPMENT IS NEVER WITHIN THE SUBJECT AREA UNLESS IT IS ON TOP OF AT LEAST EIGHTEEN (18) INCHES OF AGGREGATE. IF THE CONTRACTOR INTENDS TO UTILIZE ANYTHING OTHER THAN HAND HELD EQUIPMENT WITHIN THE SUBJECT AREA, THE CONTRACTOR SHALL, TWO WEEKS PRIOR TO SUCH USE, PROVIDE SPOTS, STEVENS AND MCCOY WITH A LIST OF EQUIPMENT TO BE USED WITHIN THE SUBJECT AREA. THE LIST SHALL INCLUDE EQUIPMENT SPECIFICATIONS AND SHALL BE ACCOMPANIED BY ENGINEERING CALCULATIONS CERTIFYING THAT THE EQUIPMENT WILL EXERT A PRESSURE OF 5 PSI OR LESS ON THE SUBGRADE OF THE INFILTRATION FACILITY.
4. INSTALL UPSTREAM AND DOWNSTREAM CONTROL STRUCTURES, CLEANOUTS, PERFORATED PIPING, AND ANY OTHER NECESSARY STORMWATER STRUCTURES.
5. THE BOTTOM OF INFILTRATION BEDS SHALL BE SCARIFIED IMMEDIATELY PRIOR TO THE PLACEMENT OF THE GEOTEXTILE FABRIC AT THE BOTTOM OF THE BED.
6. GEOTEXTILE AND BED AGGREGATE SHALL BE PLACED IMMEDIATELY AFTER APPROVAL OF SUBGRADE PREPARATION AND INSTALLATION OF STRUCTURES. ONLY UNIFORMLY GRADED, CLEAN AGGREGATE, FREE OF FINES, SLATE, SHALE, CLAY, SILT, AND VEGETATIVE MATERIAL SHALL BE USED. THE AGGREGATE SHALL HAVE A MINIMUM VOID RATIO OF 40% AND A WASH LOSS OF NO MORE THAN 0.5%. THESE VALUES APPLY TO THE AGGREGATE WITHIN THE BED. THE SUPPLIER OF THE AGGREGATE SHALL PROVIDE CERTIFICATION OF THE VOID RATIO OF THE AGGREGATE DELIVERED TO THE SITE. GEOTEXTILE SHALL BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND SHALL OVERLAP A MINIMUM OF EIGHTEEN (18) INCHES.
7. INSTALL COVER OVER THE BED (STONE SUBBASE AND PAVING, OR TOPSOIL AND SEEDING).
8. ONCE ALL TRIBUTARY AREAS ARE SUFFICIENTLY STABILIZED, REMOVE TEMPORARY EROSION AND SEDIMENT CONTROLS.

PERMIT TERMINATION

UPON PERMANENT STABILIZATION OF THE EARTH DISTURBANCE ACTIVITY UNDER § 102.22(a)(2) (RELATING TO PERMANENT STABILIZATION) AND INSTALLATION OF BMPs IN ACCORDANCE WITH AN APPROVED PLAN PREPARED AND IMPLEMENTED IN ACCORDANCE WITH §§ 102.4 AND 102.8 (RELATING TO EROSION AND SEDIMENT CONTROL REQUIREMENTS; AND PCSM REQUIREMENTS), THE PERMITTEE OR CO-PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION TO THE DEPARTMENT OR CONSERVATION DISTRICT.

THE NOTICE OF TERMINATION MUST INCLUDE:

1. THE FACILITY NAME, ADDRESS, AND LOCATION.
2. THE OPERATOR NAME AND ADDRESS.
3. THE PERMIT NUMBER.
4. THE REASON FOR PERMIT TERMINATION.
5. IDENTIFICATION OF THE PERSONS WHO HAVE AGREED TO AND WILL BE RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PCSM BMPs IN ACCORDANCE WITH § 102.8(M) AND PROOF OF COMPLIANCE WITH § 102.8(M)(2).

CONSTRUCTION SEQUENCE

ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH CHAPTER 102 REGULATIONS BEFORE ANY FOLLOWING STAGE IS INITIATED. THE GENERAL CONTRACTOR SHALL TAKE INTO ACCOUNT THE LOCAL WEATHER FORECAST PRIOR TO BEGINNING ANY EXCAVATION ACTIVITIES.

DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING BY THE BERKS COUNTY CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION. EACH STEP OF THE SEQUENCE SHALL BE COMPLETED BEFORE PROCEEDING TO THE NEXT STEP, EXCEPT WHERE NOTED.

AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARED, THE ROOM POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN PREPARED, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND A REPRESENTATIVE FROM BERKS COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.

AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

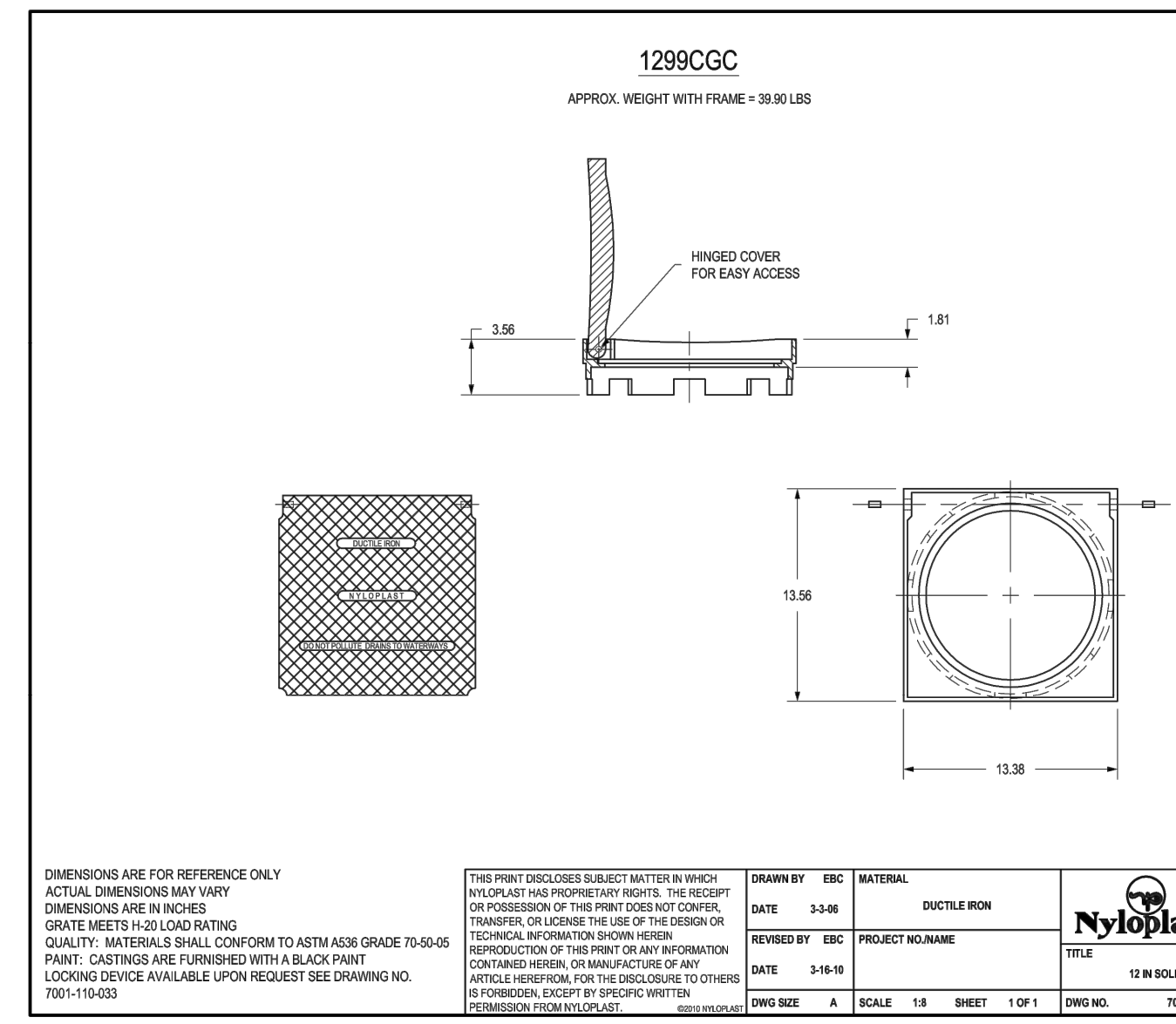
AS SOON AS ALL SLOPES, SWALES, AND OTHER DISTURBED AREAS REACH FINAL GRADE, THEY MUST BE STABILIZED WITH THE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION. IN NO CASE SHALL AN AREA EXCEEDING 15,000 SQUARE FEET, WHICH IS TO BE STABILIZED BY VEGETATION, REACH FINAL GRADE WITHOUT BEING SEEDED AND MULCHED. FILL SLOPES SHALL BE SEEDED AND MULCHED. AREAS WHICH ARE PLACED IN VERTICAL INCREMENTS, AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 4 INCHES PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 6 INCHES OF TOPSOIL. IN PLACE PRIOR TO SEEDING AND MULCHING. FILL 3:1 OR GREATER SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.

ALL CONCRETE WASHOUT ON SITE MUST BE CONDUCTED AT THE INDICATED CONCRETE WASHOUT AREA. THE CONCRETE WASHER SHALL BE INSTALLED PRIOR TO THE FIRST CONCRETE DELIVERY FOR THE SITE, AND SHALL REMAIN IN PLACE UNTIL ALL CONCRETE POURING IS COMPLETED.

IF WATER IS ENCOUNTERED DURING EXCAVATION ACTIVITIES, PUMPED WATER FILTER BAGS SHALL BE USED TO REMOVE WATER FROM THE EXCAVATION. PUMPED WATER FILTER BAGS SHALL BE INSTALLED, OPERATED, AND MAINTAINED IN ACCORDANCE WITH THE PROVIDED DETAIL.

PHASE 1

1. DELINEATE AND MARK THE LIMIT OF DISTURBANCE (I.E. SURVEY STAKES, POST AND ROPE, ORANGE CONSTRUCTION FENCE, ETC.). ALL CONSTRUCTION ACTIVITIES SHALL REMAIN WITHIN THIS LIMIT AT ALL TIMES. STREAMS AND/OR WETLANDS, IF APPLICABLE, SHALL ALSO BE MARKED.
2. PRIOR TO PROCEEDING WITH CONSTRUCTION, CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. MAINTAIN AND PROTECT ALL EXISTING UTILITIES TO REMAIN AT ALL TIMES.
3. INSTALL ROCK CONSTRUCTION ENTRANCE AS INDICATED. ALL CONSTRUCTION EQUIPMENT/VEHICLES SHALL ENTER AND LEAVE THE SITE AT THIS LOCATION ONLY. INSTALL COMPOST FILTER SOCKS AS INDICATED.
4. CLEAR AND GRUB THE SITE WITHIN THE LIMIT OF DISTURBANCE.
5. BEGIN BULK EARTHMOVING ACTIVITIES AND BRING SITE TO ROUGH GRADE. EXCESS SOIL SHALL BE EXPORTED OFF SITE. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR SHALL ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE GOVERNING CONSERVATION DISTRICT, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 102 REGULATIONS. THE OPERATOR SHALL NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS ONCE THEY HAVE BEEN IDENTIFIED.
6. BEGIN CONSTRUCTION OF THE PROPOSED SKATEPARK.
7. CONCURRENT WITH THE SKATEPARK CONSTRUCTION, CONSTRUCT THE STORM SEWER FROM DRAIN 24 TO THE EXISTING INLET ON MINOR STREET.
8. CONSTRUCTION SHALL PROCEED FROM DOWNSTREAM TO UPSTREAM, AND THE CONTRACTOR SHALL ONLY EXCAVATE THE TRENCH FOR THE AMOUNT OF PIPE THAT CAN BE INSTALLED, BACKFILLED, AND STABILIZED WITHIN ONE WORKING DAY.
9. CRITICAL STAGE: CONCURRENT WITH THE SKATEPARK CONSTRUCTION, CONSTRUCT THE INFILTRATION BED ACCORDING TO THE "CONSTRUCTION SEQUENCE - UNDERGROUND INFILTRATION BED".
10. CRITICAL STAGE: CONCURRENTLY, CONSTRUCT THE STORM SEWER PIPING ASSOCIATED WITH THE INFILTRATION BED. CONSTRUCTION SHALL PROCEED FROM DOWNSTREAM TO UPSTREAM, AND THE CONTRACTOR SHALL ONLY EXCAVATE THE TRENCH FOR THE AMOUNT OF PIPE THAT CAN BE INSTALLED, BACKFILLED, AND STABILIZED WITHIN ONE WORKING DAY. AS TRAILS TO THE INFILTRATION BED ARE INSTALLED, THE INLETS SHALL BE IMMEDIATELY BLOCKED AS FOLLOWS: INSTALL INLET FILTER BAG IN INLET AND INSTALL PLYWOOD WITH CLEAN STONE ON TOP TO PREVENT SEDIMENT LADEN WATER FROM ENTERING THE INFILTRATION BEDS. INLETS SHALL REMAIN BLOCKED UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER (STONE/PAVING) SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
11. GRADE ANY REMAINING AREAS OF THE SITE TO FINAL GRADE. IMMEDIATELY SEED, STABILIZE, AND INSTALL EROSION CONTROL BLANKET AS INDICATED.
12. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE BERKS COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
13. ONCE THE SITE HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER (STONE/PAVING) SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS, REMOVE ALL TEMPORARY E&S BMPs INCLUDING COMPOST FILTER SOCKS. ANY AREA DISTURBED DURING THE REMOVAL OF A TEMPORARY BMP SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.
14. CRITICAL STAGE: IMMEDIATELY FOLLOWING REMOVAL OF TEMPORARY INLET PROTECTION/BLOCKAGE, INSTALL PERMANENT GRATE INLET SKIMMER BOX AS INDICATED.



PHASE 2

1. DELINEATE AND MARK THE LIMIT OF DISTURBANCE (I.E. SURVEY STAKES, POST AND ROPE, ORANGE CONSTRUCTION FENCE, ETC.). ALL CONSTRUCTION ACTIVITIES SHALL REMAIN WITHIN THIS LIMIT AT ALL TIMES. STREAMS AND/OR WETLANDS, IF APPLICABLE, SHALL ALSO BE MARKED.
2. PRIOR TO PROCEEDING WITH CONSTRUCTION, CONFIRM THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES. MAINTAIN AND PROTECT ALL EXISTING UTILITIES TO REMAIN AT ALL TIMES.
3. INSTALL ROCK CONSTRUCTION ENTRANCE AS INDICATED. ALL CONSTRUCTION EQUIPMENT/VEHICLES SHALL ENTER AND LEAVE THE SITE AT THIS LOCATION ONLY. INSTALL COMPOST FILTER SOCKS AS INDICATED.
4. THE INLET IN NEW CANAL STREET SHALL BE BLOCKED AS FOLLOWS: INSTALL INLET FILTER BAG IN INLET AND INSTALL PLYWOOD WITH CLEAN STONE ON TOP TO PREVENT SEDIMENT LADEN WATER FROM ENTERING THE INFILTRATION BED. THE INLET SHALL REMAIN BLOCKED UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER (STONE/PAVING) SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.
5. CLEAR AND GRUB THE SITE WITHIN THE LIMIT OF DISTURBANCE.
6. BEGIN BULK EARTHMOVING ACTIVITIES AND BRING SITE TO ROUGH GRADE. EXCESS SOIL SHALL BE EXPORTED OFF SITE. BEFORE DISPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE OPERATOR SHALL ASSURE THAT EACH SPOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE GOVERNING CONSERVATION DISTRICT, AND WHICH IS BEING IMPLEMENTED AND MAINTAINED IN ACCORDANCE WITH CHAPTER 102 REGULATIONS. THE OPERATOR SHALL NOTIFY THE BERKS COUNTY CONSERVATION DISTRICT IN WRITING OF ALL RECEIVING SPOIL AND BORROW AREAS ONCE THEY HAVE BEEN IDENTIFIED.
7. BEGIN CONSTRUCTION OF THE PROPOSED SKATEPARK.
8. FOR AREAS THAT WILL BE PAVED, INSTALL CONCRETE CURB (WHERE INDICATED), STONE SUBBASE, BINDER COURSE, AND BASE COURSE (WHERE INDICATED). GRADE ANY REMAINING AREAS OF THE SITE TO FINAL GRADE. IMMEDIATELY SEED, STABILIZE, AND INSTALL EROSION CONTROL BLANKET AS INDICATED.
9. ONCE CONSTRUCTION ACTIVITIES HAVE COMPLETED, THE CONTRACTOR SHALL SWEEP ALL PAVEMENT AREAS AND INSTALL FINAL WEARING COURSE. PERFORM PAVEMENT LINE STRIPING AS INDICATED.
10. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE BERKS COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
11. ONCE THE SITE HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER (STONE/PAVING) SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS, REMOVE ALL TEMPORARY E&S BMPs INCLUDING COMPOST FILTER SOCKS. ANY AREA DISTURBED DURING THE REMOVAL OF A TEMPORARY BMP SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.
12. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE BERKS COUNTY CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
13. ONCE THE SITE HAS ACHIEVED A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER (STONE/PAVING) SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS, REMOVE ALL TEMPORARY E&S BMPs INCLUDING COMPOST FILTER SOCKS. ANY AREA DISTURBED DURING THE REMOVAL OF A TEMPORARY BMP SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND STRAW MULCH.
14. CRITICAL STAGE: IMMEDIATELY FOLLOWING REMOVAL OF TEMPORARY INLET PROTECTION/BLOCKAGE, INSTALL PERMANENT GRATE INLET SKIMMER BOX AS INDICATED.

CRITICAL STAGES

1. THE CONSTRUCTION OF THE FOLLOWING STORMWATER BMPs ARE CRITICAL STAGES OF CONSTRUCTION AND MUST BE OBSERVED BY A LICENSED PROFESSIONAL ENGINEER OR QUALIFIED DESIGNEE.
  - A. UNDERGROUND INFILTRATION BED
    - i. INSPECT THE BOTTOM OF THE BED. BOTTOM SHALL BE UNCOMPACTED SUBGRADE.
    - ii. INSPECT THE STONE PRIOR TO PLACEMENT TO ENSURE IT MEETS THE DESIGN REQUIREMENTS.
    - iii. INSPECT GEOTEXTILE PRIOR TO PLACEMENT OF STONE.
    - iv. INSPECT OUTLET STRUCTURE TO ENSURE IT MEETS THE DESIGN REQUIREMENTS.
    - v. INSPECT TOP OF STONE PRIOR TO WRAPPING GEOTEXTILE.
    - vi. INSPECT THE INSTALLATION OF THE TEMPORARY BLOCKAGE IN ALL INLETS DRAINING TO THE INFILTRATION BED.
    - vii. INSPECT THE INSTALLATION OF THE PERMANENT GRATE INLET SKIMMER BOX INSERT.
  - B. THE PERMITTEE OR CO-PERMITTEE (CONTRACTOR) SHALL NOTIFY SPOTTS, STEVENS AND MCCOY TO ALLOW FOR THE COORDINATION OF THE CONSTRUCTION OBSERVATION AND INSPECTION OF THE SPECIFIED WORK REQUIRED BY THE NPDES PERMIT CONDITIONS.
2. ALTHOUGH THE DESCRIPTION OF WORK IS GENERAL IN NATURE, THE OBSERVATION OF EACH STAGE OF CONSTRUCTION REQUIRES OBSERVATION AND INSPECTION OF MULTIPLE STAGES OF CONSTRUCTION. THE CONTRACTOR SHALL KEEP SPOTTS, STEVENS AND MCCOY AND THE OWNER APPRAISED OF PROGRESS IN A TIMELY MANNER TO ADEQUATELY ALLOW FOR THE OBSERVATION AND INSPECTION OF ALL CRITICAL STAGES OF CONSTRUCTION.
3. IN THE EVENT THE SPECIFIED WORK IS NOT BEING CONSTRUCTED PER THE APPROVED PLAN OR AS INTENDED BY THE DESIGN, ALL CONSTRUCTION OF THE SPECIFIED WORK SHALL CEASE, AND MAY NOT RESUME UNTIL AUTHORIZED BY SPOTTS, STEVENS AND MCCOY.

SOILS INFORMATION

ACCORDING TO THE USDA NRCS WEB SOIL SURVEY, SITE SOILS INCLUDE URBAN LAND, URBAN LAND IS PAVEMENT, BUILDINGS, AND OTHER ARTIFICIALLY COVERED AREAS. HUMAN TRANSPORTED MATERIAL. REFER TO APPENDIX G FOR A COPY OF THE WEB SOIL SURVEY. REFER TO THE TABLE ON THE PCSM PLAN (SHEET C-2-60) FOR ALL SOIL LIMITATIONS AND RESOLUTIONS.

RECEIVING WATERS OF THE COMMONWEALTH CH. 93 CLASSIFICATION

THE PROJECT SITE DRAINS TO THE SCHUYLKILL RIVER, WHICH IS CLASSIFIED AS WARM WATER FISHERY AND MIGRATORY FISHERY (WWF, MF) ACCORDING TO PA CHAPTER 93 WATER QUALITY STANDARDS. THERE ARE NO WETLANDS ON THE PROJECT SITE. A PORTION OF THE PROPERTY IS LOCATED WITHIN THE FEMA 100-YEAR FLOODPLAIN; HOWEVER, NO WORK IS PROPOSED WITHIN THE FLOODPLAIN.

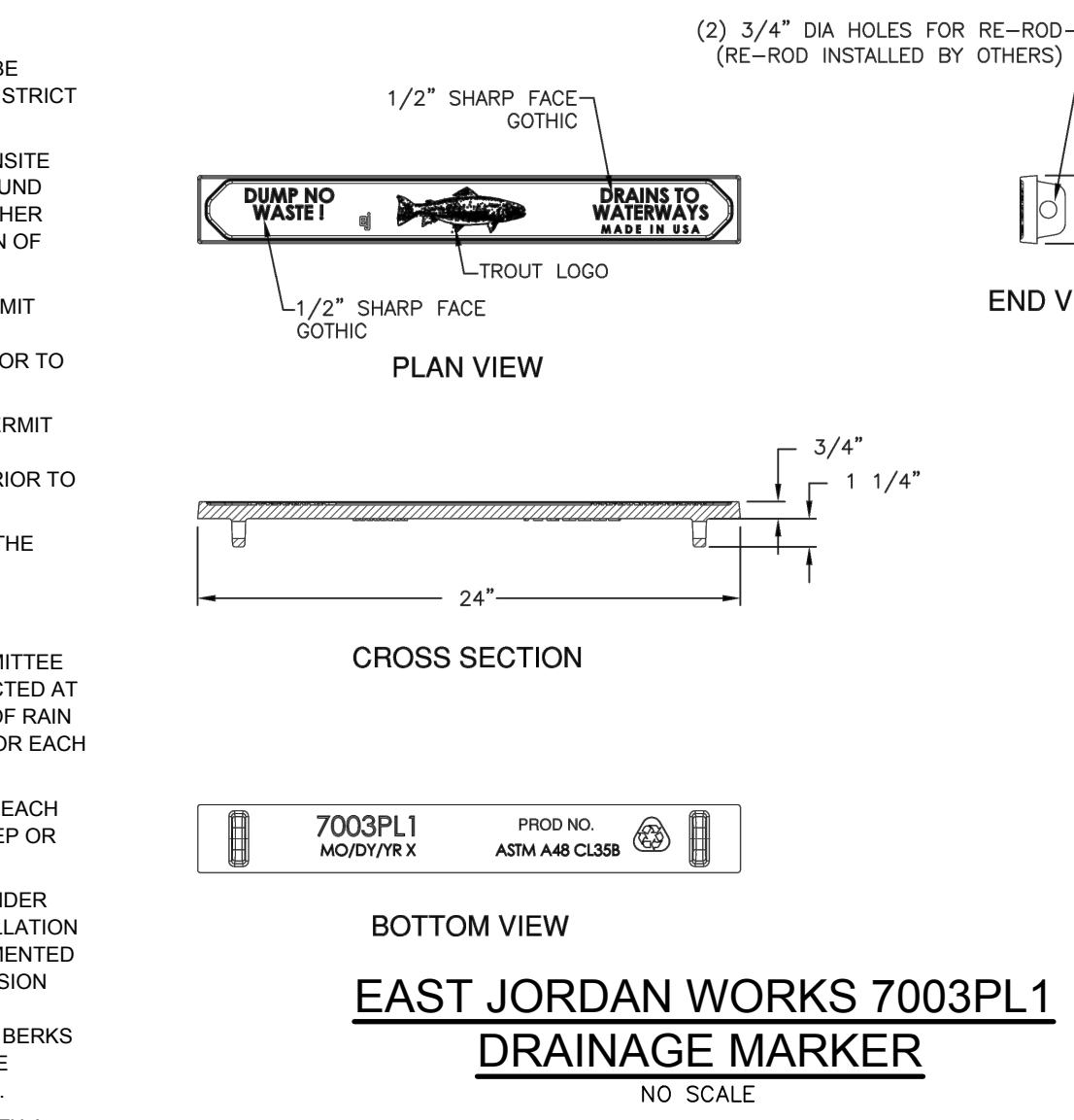
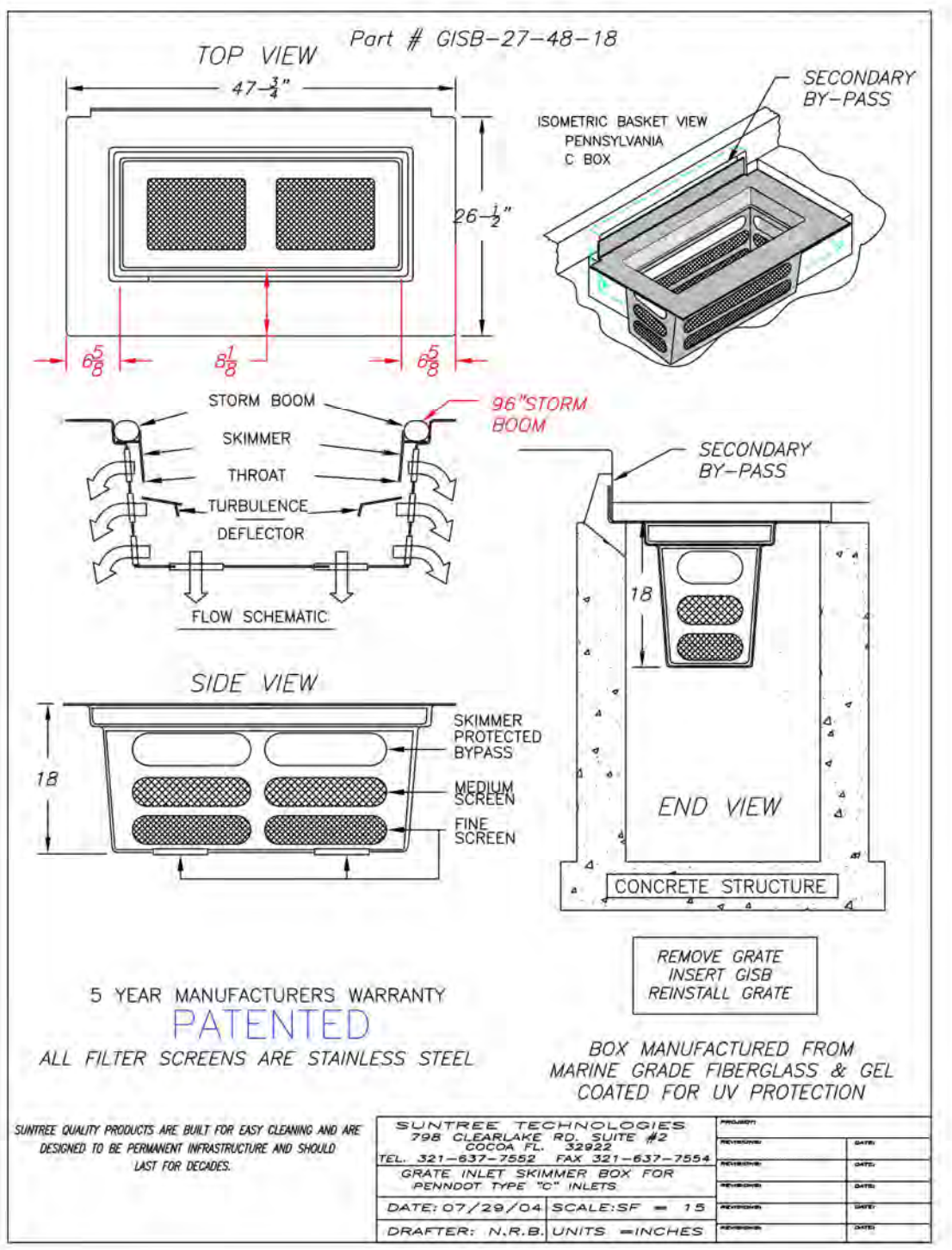
PROCEDURES FOR DISPOSAL OF MATERIALS

POTENTIAL CONSTRUCTION WASTES ANTICIPATED FROM THIS PROJECT INCLUDE BUT ARE NOT LIMITED TO: TOPSOIL/FILL MATERIAL, BUILDING MATERIALS, AND EXCAVATED ROCK. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE CHAPTER 260, §§260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.

EXCAVATED MATERIAL SHALL BE PLACED DIRECTLY INTO CONSTRUCTION VEHICLES. ANY SOIL OR ROCK THAT IS REMOVED FROM THE SITE WILL REQUIRE A SEPARATE EROSION AND SEDIMENTATION CONTROL PLAN PROVIDED BY THE CONTRACTOR. ALL SOILS REMOVED FROM AN E&S BMP DURING ROUTINE MAINTENANCE SHALL BE REMOVED FROM THE PROJECT AREA AND TAKEN AS SOIL STOCKPILE TO THE OFF-SITE STOCKPILE AREA.

GEOLOGIC CONDITIONS WITH POTENTIAL TO CAUSE POLLUTION

THE NATURALLY OCCURRING GEOLOGIC FORMATIONS WITHIN THE PROJECT SITE ARE CARBONATE, CAUSING THE POTENTIAL FOR SINKHOLES TO EXIST. REMEDIATION OF ENCOUNTERED SINKHOLES SHALL BE DONE IMMEDIATELY. THE PROJECT OWNER, PROJECT ENGINEER, AND THE COUNTY CONSERVATION DISTRICT SHALL BE CONTACTED IMMEDIATELY UPON DISCOVERY OF A SINKHOLE WITHIN THE PROJECT CONSTRUCTION AREA.



EAST JORDAN WORKS 7003PL1  
DRAINAGE MARKER  
NO SCALE

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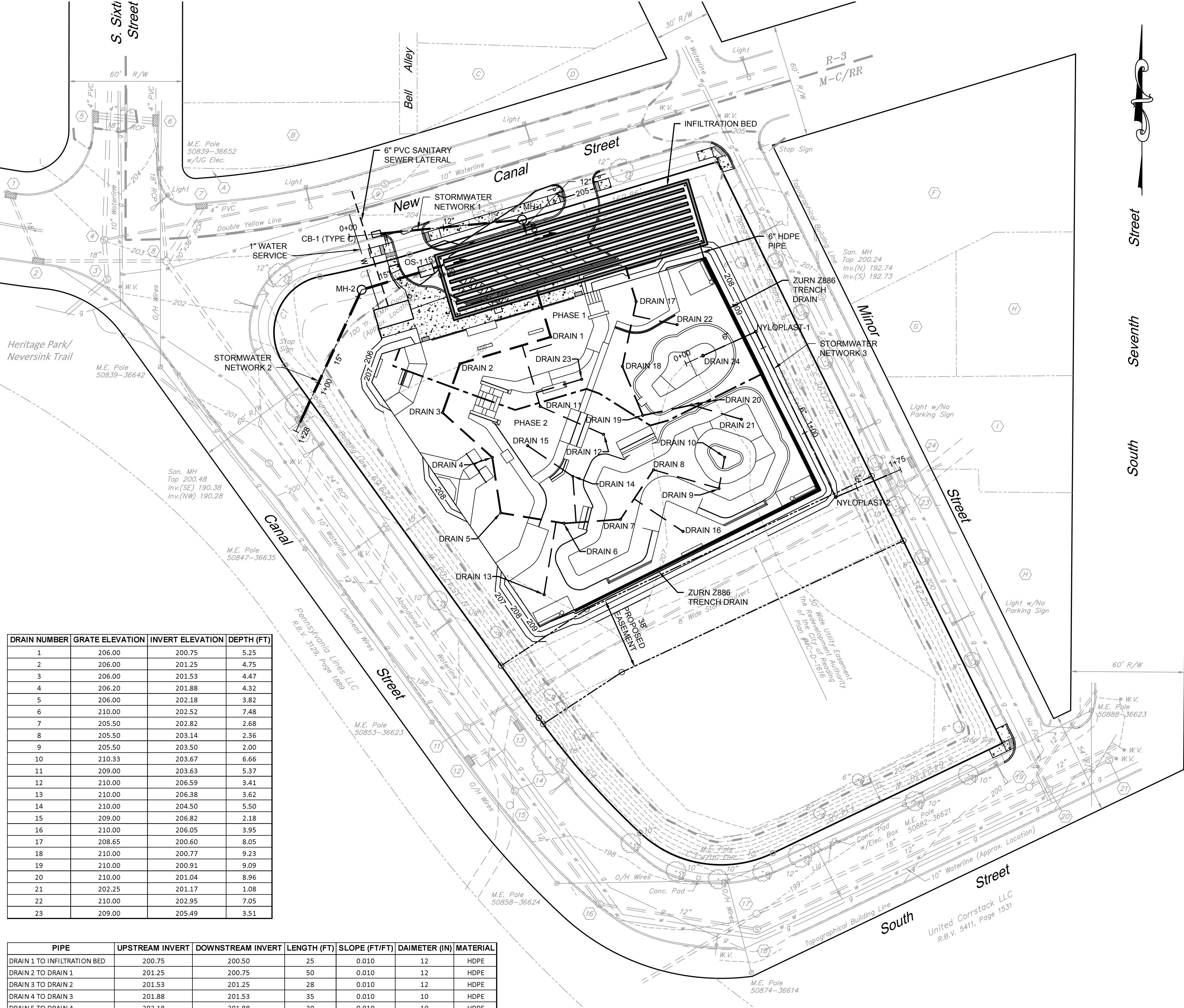
SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
esggroup.com

WEST CHESTER  
101 East Eads Street  
West Chester, PA 19380  
610.687.2000

GRINDLINE SKATEPARKS, INC.  
4619 44TH AVENUE SW, SEATTLE WA 98108  
READING SKATEPARK  
POST CONSTRUCTION STORMWATER MANAGEMENT DETAILS

07/13/20	110187.0001
DATE	DIGITAL FILENAME
110187.0001	
WORK ORDER NUMBER	
C.2-62	
DRAWING NUMBER	





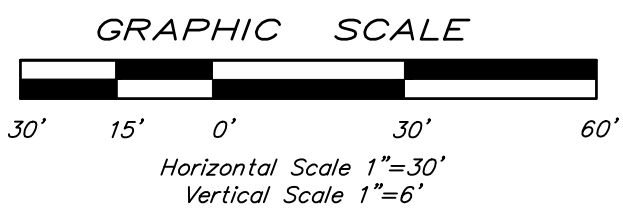
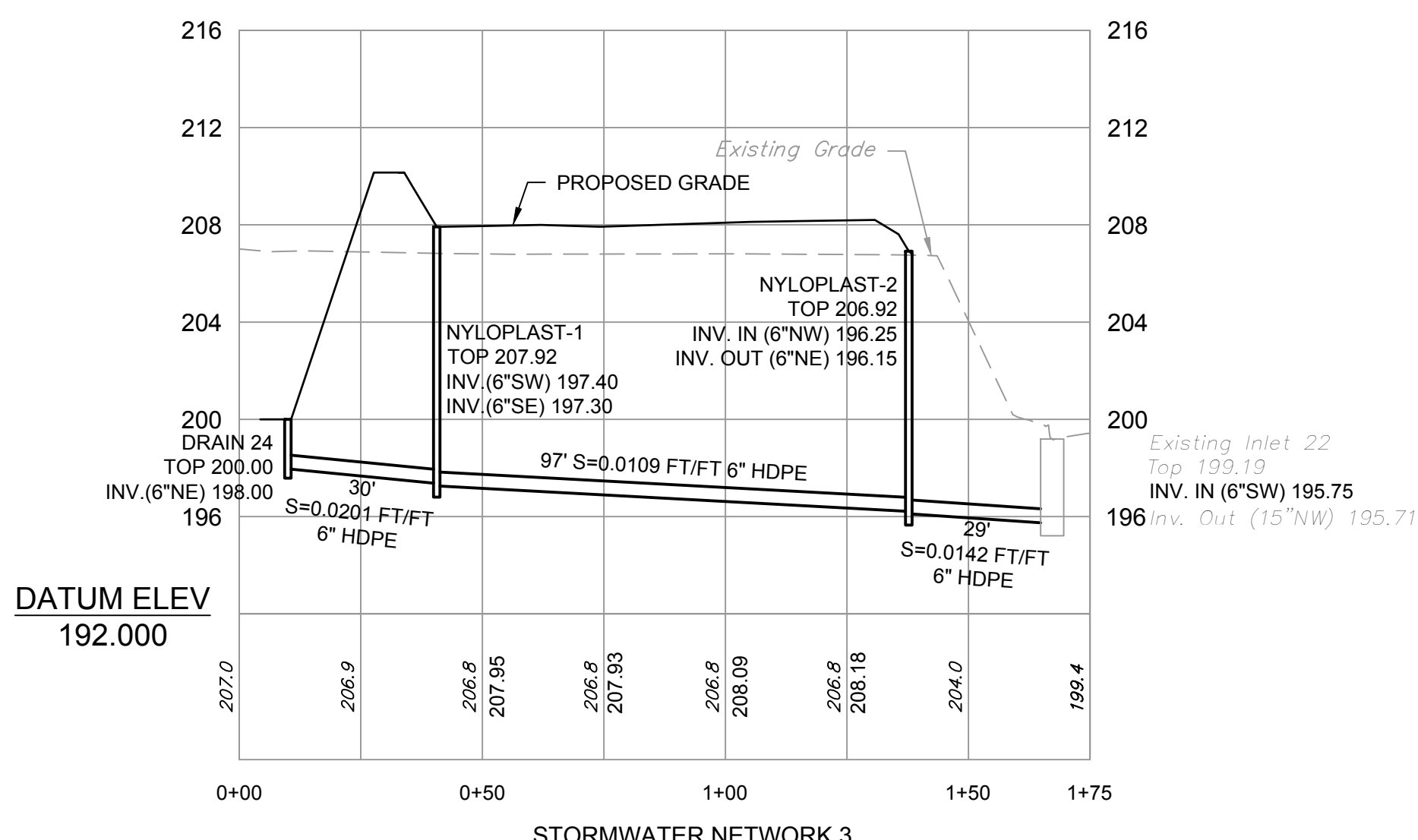
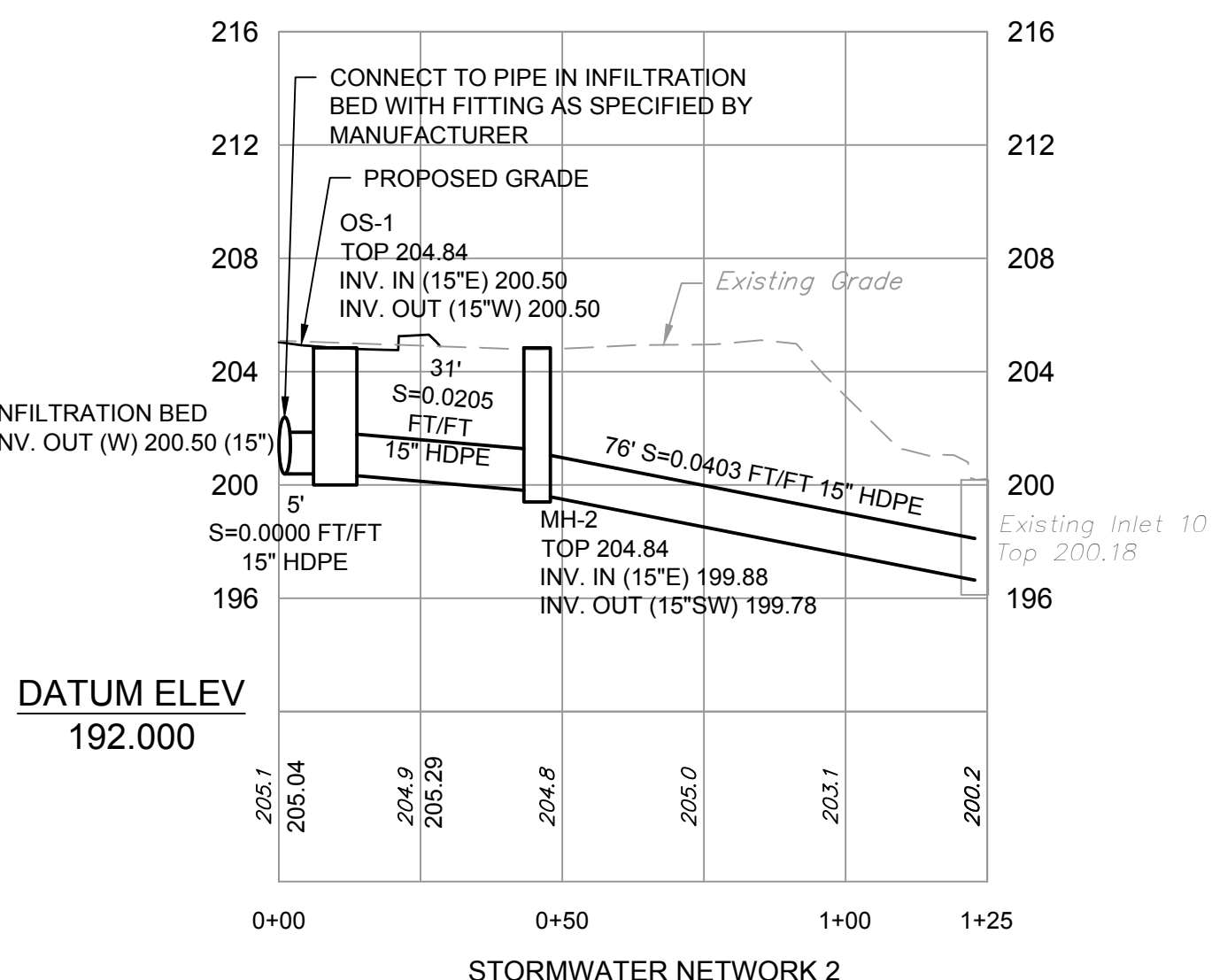
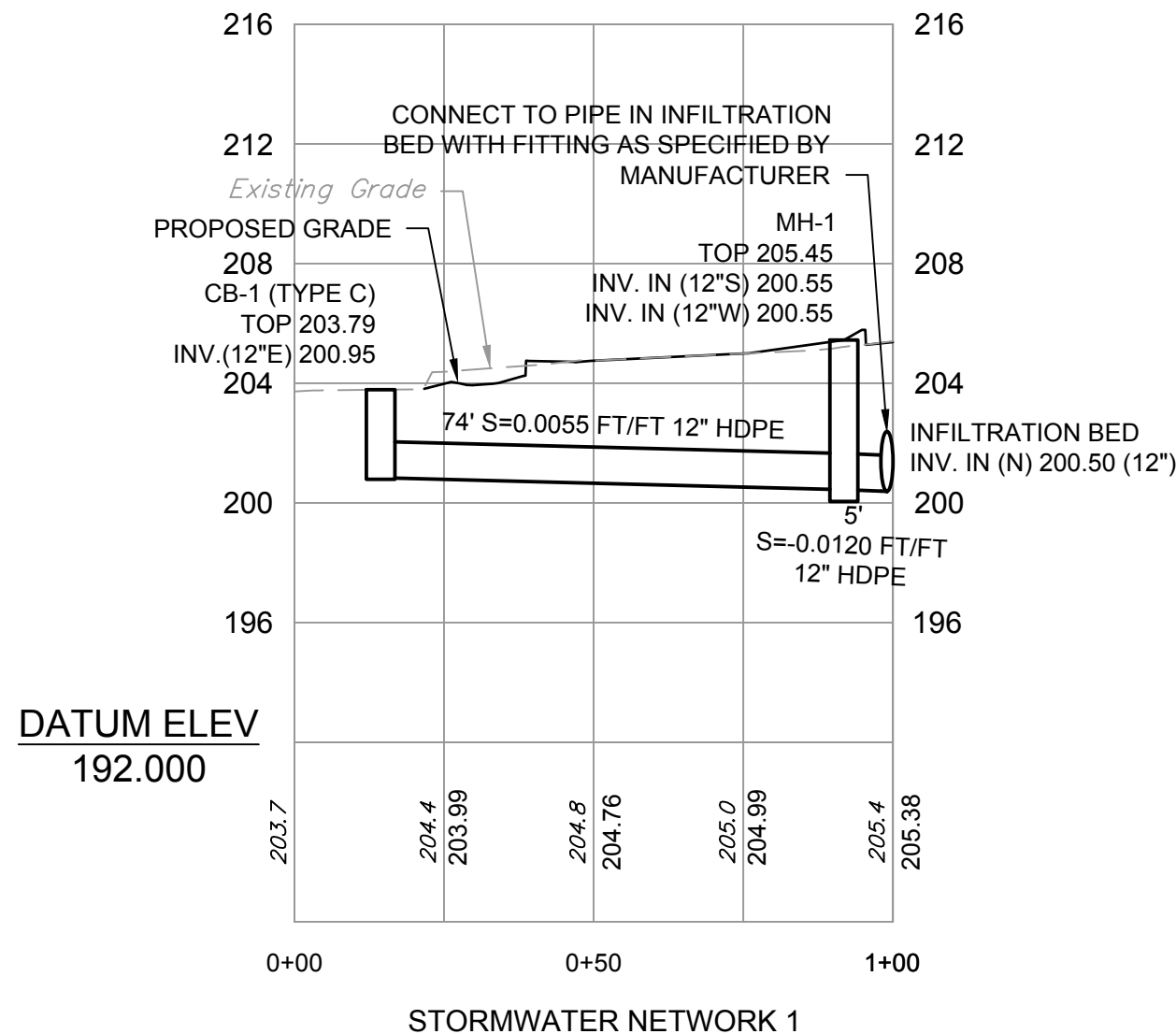
DRAIN NUMBER	GRATE ELEVATION	INVERT ELEVATION	DEPTH (FT)
1	206.00	200.75	5.25
2	206.00	201.25	4.75
3	206.00	201.53	4.47
4	206.20	201.88	4.32
5	206.00	202.18	3.82
6	210.00	202.52	7.48
7	205.50	202.82	2.68
8	205.50	203.14	2.36
9	205.50	203.50	2.00
10	210.33	203.67	6.66
11	209.00	203.63	5.37
12	210.00	206.59	3.41
13	210.00	206.38	3.62
14	210.00	204.50	5.50
15	209.00	206.82	2.18
16	210.00	206.05	3.95
17	208.65	200.60	8.05
18	210.00	200.77	9.23
19	210.00	200.91	9.09
20	210.00	201.04	8.96
21	202.25	201.17	1.08
22	210.00	202.95	7.05
23	209.00	205.49	3.51

PIPE	UPSTREAM INVERT	DOWNSIDE INVERT	LENGTH (FT)	SLOPE (FT/FT)	DAIMETER (IN)	MATERIAL
DRAIN 1 TO INFILTRATION BED	200.75	200.50	25	0.010	12	HDPE
DRAIN 2 TO DRAIN 1	201.25	200.75	50	0.010	12	HDPE
DRAIN 3 TO DRAIN 2	201.53	201.25	28	0.010	12	HDPE
DRAIN 4 TO DRAIN 3	201.88	201.53	35	0.010	10	HDPE
DRAIN 5 TO DRAIN 4	202.18	201.88	30	0.010	10	HDPE
DRAIN 6 TO DRAIN 5	202.52	202.18	34	0.010	10	HDPE
DRAIN 7 TO DRAIN 6	202.82	202.52	30	0.010	8	HDPE
DRAIN 8 TO DRAIN 7	203.14	202.82	32	0.010	8	HDPE
DRAIN 9 TO DRAIN 8	203.50	203.14	36	0.010	6	HDPE
DRAIN 10 TO DRAIN 9	203.67	203.50	17	0.010	6	HDPE
DRAIN 11 TO TEE	203.63	200.91	34	0.080	6	HDPE
DRAIN 12 TO DRAIN 11	206.59	203.63	37	0.080	6	HDPE
DRAIN 13 TO TEE	206.38	202.48	39	0.100	6	HDPE
DRAIN 14 TO TEE	204.50	202.58	24	0.080	6	HDPE
DRAIN 15 TO DRAIN 14	206.82	204.50	29	0.080	6	HDPE
DRAIN 16 TO TEE	206.05	202.95	31	0.100	6	HDPE
DRAIN 17 TO INFILTRATION BED	200.60	200.50	20	0.005	10	HDPE
DRAIN 18 TO DRAIN 17	200.77	200.60	34	0.005	8	HDPE
DRAIN 19 TO DRAIN 18	200.91	200.77	27	0.005	8	HDPE
DRAIN 20 TO DRAIN 19	201.04	200.91	26	0.005	8	HDPE
DRAIN 21 TO DRAIN 20	201.17	201.04	26	0.005	6	HDPE
DRAIN 22 TO TEE	202.95	200.65	23	0.100	6	HDPE
DRAIN 23 TO TEE	205.49	202.99	25	0.100	6	HDPE

- STORM SEWER NOTES:
- THE STORM SEWER SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT PUB 408.
  - ALL ENDWALLS / HEADWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT RC-31M.
  - ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT RC-39M.
  - ALL INLETS AND JUNCTION BOXES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF PENNDOT RC-45M AND RC-46M.
  - INLET TOP UNITS SHALL BE ADJUSTED, AS NECESSARY, TO MATCH THE SLOPE OF THE PAVING.
  - ALL HDPE PIPE SHALL BE DUAL WALL WITH A SMOOTH INTERIOR (e.g. ADS N-12).
  - ALL PROPOSED STORM PIPES SHALL HAVE WATERTIGHT JOINTS.
  - THE INFILTRATION BED, AND ASSOCIATED PIPING, SHALL BE CONSTRUCTED IN PHASE 1.
  - REFER TO PLANS BY GRINDLINE SKATEPARKS, INC. FOR SKATEPARK DRAIN DETAILS.

- SANITARY SEWER NOTES:
- THE TAP OF THE EXISTING SEWER MAIN AND THE INSTALLATION OF THE SANITARY SEWER LATERAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF READING.

- WATER NOTES:
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE TAP AND WATER SERVICE INSTALLATION UP TO AND INCLUDING THE METER PIT WITH THE READING AREA WATER AUTHORITY.



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SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
sangroup.com

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1000 N. Cedar Creek Blvd  
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Reading, PA 19602  
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Fax: 610.662.2201

**LEHIGH VALLEY**  
1600 N. Cedar Creek Blvd  
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Reading, PA 19602  
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Fax: 610.662.2201

GRINDLINE SKATEPARKS, INC.

4619 14TH AVENUE SW, SEATTLE WA 98108  
READING SKATEPARK  
UTILITY PLAN

07/13/20 110187.0001  
DATE DIGITAL FILENAME

110187.0001

WORK ORDER NUMBER

C.3-01

DRAWING NUMBER



DETAIL A  
CONTRACTION JOINT

### TYPICAL CROSS SECTION

### CONCRETE CURB DETAIL

- NOTES:**
1. MATERIALS AND CONSTRUCTION SHALL MEET THE REQUIREMENTS OF PUBLICATION 408, SECTION 630.
  2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.
  3. PLACE 3/4" PREMOLED EXPANSION JOINT FILLER MATERIAL AT STRUCTURES AND AT THE END OF THE WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB SEE RC-50 FOR PLAIN CEMENT CONCRETE CURB SLOPED.
  4. TOP TRIM MATERIAL END OF STRUCTURES.
  5. MATCH EXISTING CURB ELEVATION FOR CURBING ALONG NEW CANAL STREET.

- NOTES:
1. TOOL ALL EDGES.
  2. CONCRETE SHALL BE PENNDOT CLASS A CEMENT CONCRETE
  3. BROOM OR BURLAP FINISH.

### SIDEWALK DETAIL

### PAVEMENT JOINT DETAIL

### STANDARD PAVING DETAIL

- NOTES:
1. REFER TO STANDARD POLE MOUNTED SIGN INSTALLATION DETAIL FOR SIGN INSTALLATION.

### 45 DEGREE HANDICAP PARKING SPACE DETAIL

### STANDARD POLE MOUNTED SIGN INSTALLATION DETAIL

1. POST MOUNTED SIGNS SHALL BE TYPE B CHANNEL BAR POSTS AND SHALL CONFORM TO PENNDOT TRAFFIC CONTROL SIGNING STANDARDS' SC-8702B SHEET 8 THRU 11 OF 11. APPROPRIATE POSTS SHALL BE SELECTED BASED ON THE TYPE OF SIGN USING THE SELECTION TABLES CONTAINED THEREIN.
2. SIGN INSTALLATION SHALL BE IN ACCORDANCE WITH PENNDOT TRAFFIC CONTROL SIGNING STANDARDS' SC-8702B SHEETS 8 THRU 11 OF 11, AS AMENDED.
3. SEE PLANS FOR EXACT LOCATION, TYPE, AND SIZE OF SIGNS. ALL REGULATORY (I) SERIES, WARNING (W) SERIES, OR OTHER APPROVED SIGNS SHALL CONFORM TO THE PENNDOT 'HANDBOOK OF APPROVED SIGNS', EDITION 236M, AS AMENDED, UNLESS OTHERWISE SPECIFIED.  
  
SIGNS SHALL BE SETBACK 20' FROM CURB LINES, GUIDE LINES, OR OTHER DIVISIONS AS MEASURED FROM THE FACE/EDGE OF THE SIGN.
5. ALONG NON-CURBED LOCAL ROADWAYS SIGNS SHALL BE SETBACK 6'0" FROM THE SHOULDER/PAVING EDGE AND SHALL BE AT A HEIGHT 5'0" ABOVE THE EDGE OF PAVEMENT SURFACE.
6. ALL SIGNS SHALL BE INSTALLED WITH ACORN NUT FASTENERS.
7. FOR "RESERVED PARKING SIGN" (R7-B) REFER TO DETAILS AND SPECIFIED MOUNTING HEIGHTS WHICH ARE LOWERED TO INCREASED VISIBILITY PER ADA REGULATIONS.

# READING SKATEPARK PARK RULES

- **PARK HOURS: 8AM TO DUSK.**
- THIS IS A "USE AT YOUR OWN RISK" PARK. THIS PARK IS UNSUPERVISED. BY ENTERING THIS FACILITY, USERS RELEASE THE CITY OF READING FROM ANY LIABILITY RESULTING FROM THE USERS USE AND VISIT. THE CITY IS NOT RESPONSIBLE FOR ANY INJURIES OR MISADVENTURES WHICH MAY OCCUR.
- THIS PARK IS OPEN TO EXTREME SPORTS ENTHUSIASTS OF ALL AGES AND SKILL LEVELS. KNOW YOUR ABILITIES, BE SAFE, AND RESPECT THOSE WHO HAVE DIFFERENT SKILL LEVELS OR METHODS.
- WHEN RIDING, LOOK UP AND COMMUNICATE YOUR PATH.
- HELMETS, ELBOW PADS, KNEE PADS, AND OTHER PROTECTIVE MEASURES ARE STRONGLY RECOMMENDED.
- SHIRTS ARE REQUIRED TO BE WORN AT ALL TIMES REGARDLESS OF GENDER.
- THE FOLLOWING IS PROHIBITED AT THE PARK: GLASS CANTANERS, MOTORIZED VEHICLES, FOREIGN OBJECTS (JUMPS, LAUNCH RAMPs, RAILINGS, MAKESHIFT MATERIALS ETC.), BOMBXOMBS (LOUO MUSIC DEVICES, DRUGS, SMOKING, TOBACCO, CIGARETTES, PINK STICKERS, SIGNS).
- KEEP NOISE DOWN AND RESPECT THE SURROUNDING COMMUNITY.
- PICK UP AFTER YOURSELF AND LEAVE NO DEBRIS OR TRASH BEHIND.
- IF YOU USE SOMEONE ACTING INAPPROPRIATELY, BE A MENTOR AND SHARE TIPS ON PARK ETIQUETTE.
- CITY MAY CLOSE THE PARK AT ANY TIME FOR ANY REASON, INCLUDING WEATHER, VANDALISM, FAILURE TO DISPOSE OF TRASH, MAINTENANCE, AND RULE VIOLATIONS.
- THE CITY IS NOT RESPONSIBLE FOR ANY PERSONAL ITEMS WHICH GO MISSING OR STOLEN FROM THE PARK.
- CALL 911 IN AN EMERGENCY, OR TO REPORT CRIMINAL BEHAVIOR IN OR AROUND THE PARK.
- CALL 1-877-737-3234 TO REPORT VANDALISM OR MAINTENANCE PROBLEMS.

PARK SIGN  
NO SCALE

- NOTES:
1. ALL PARK SIGNS SHALL MEET THE REQUIREMENTS OF THE CITY OF READING PRIOR TO INSTALLATION.
  2. EXACT TEXT / PARK RULES SHALL BE SUBJECT TO CITY OF READING APPROVAL.
  3. SIGNS SHALL BE MOUNTED AT GATED ENTRANCES TO THE PARK ON THE CHAINLINK FENCE.
  4. EXACT SIGN APPEARANCE, COLOR, AND TEXT SIZE WILL MEET CITY OF READING REQUIREMENTS.

### FENCE POST MOUNTING DETAIL

### 6' CHAIN LINK FENCE DETAIL

- NOTES:  
1. CONSTRUCT CURB RAMPS IN ACCORDANCE WITH PENNDOT RC-67M

### ALTERNATE TYPE 4A (PARALLEL) CURB RAMP DETAIL

- 18 CURB RAMPS REQUIRE A TURNING SPACE WITH A MAX. CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS.

- NOTES:  
1. CONSTRUCT CURB RAMPS IN ACCORDANCE WITH PENNDOT RC-67M

TYPE 1A CURB RAMP DETAIL

- ① SIDE FLARES 10.00% MAX. SLOPE.
- ② IF THE TURNING SPACE IS INDICATED TO BE LESS THAN 4',  
CONSTRUCT SIDE FLARES AT 8.33% MAX. SLOPE.
- ⑬ CURB RAMPS REQUIRE A TURNING SPACE WITH A MAX. CROSS  
SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS  
PERFORM TURNING MANEUVERS.

### TYPE 1 CURB RAMP DETAIL

## WHITE PAINTED TRAFFIC

[illegible]

RELEASED FOR:  
PRELIMINARY/FINAL



GRINDLINE SKATEPARKS, INC.

READING SKATEPARK  
1000 1ST AVENUE SW, SEATTLE WA 98106

# AILS

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01

07/13/

DIGITAL FILENAME

110187.0001

WORK ORDER NUMBER

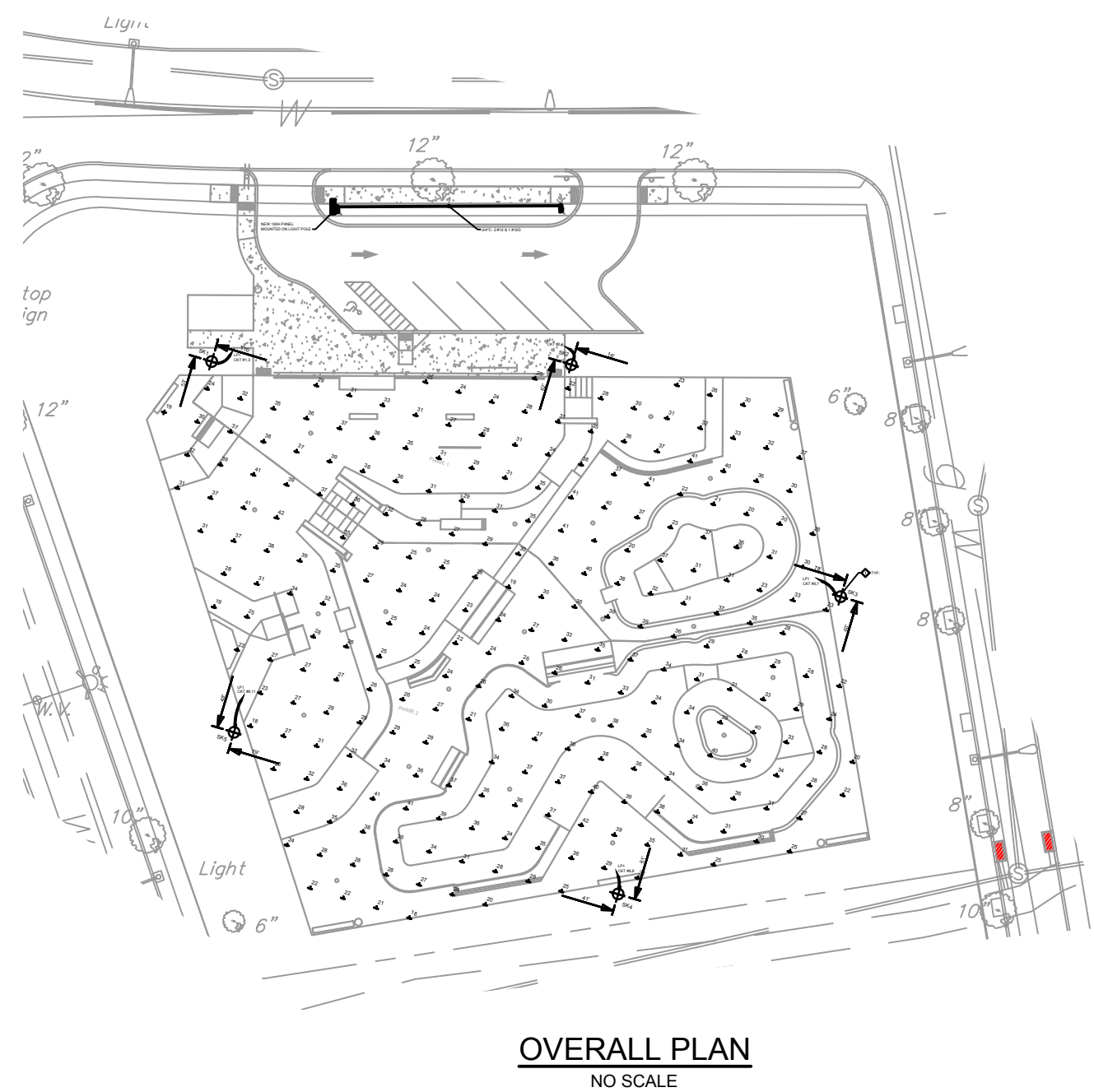
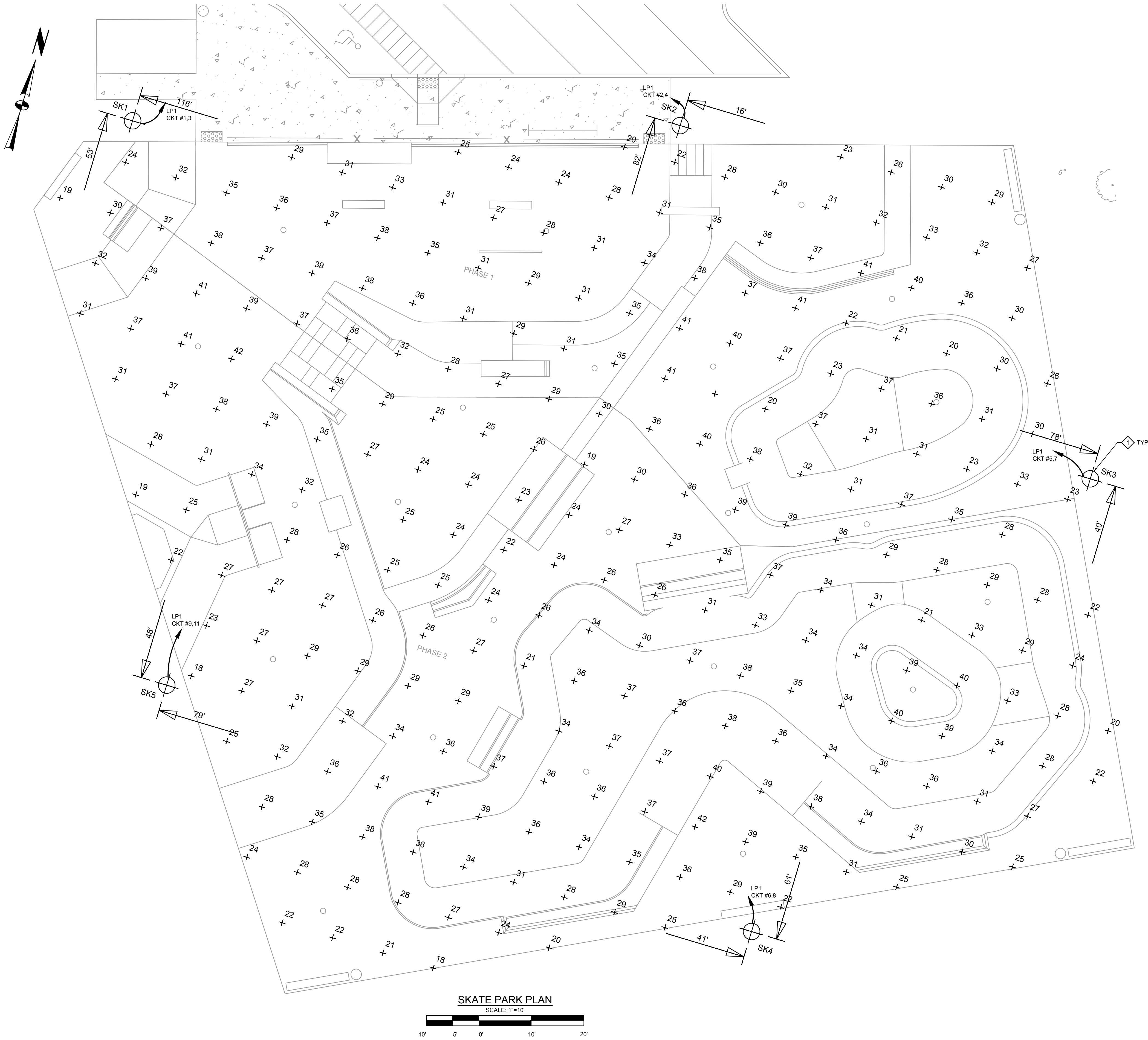
C.6-01

DRAWING NUMBER









NOTE: LIGHTING ON THIS SHEET DOES NOT MATCH RENDERING ON SHEET SP1.1. THE RENDERING WAS PROVIDED FOR A PERSPECTIVE VIEW OF THE CONCRETE SKATEPARK ONLY AND DOES NOT REFLECT THE ACTUAL LIGHTING OR FENCING PROPOSED. THE RENDERING SHOULD NOT BE USED FOR CONSTRUCTION PURPOSES.

INSTALLATION NOTES:  
LIGHTING FIXTURES, POLES, AND CONTROLS SHALL BE PROVIDED BY MUSCO LIGHTING. LIGHTING FIXTURES SHALL MEET DARK SKY REQUIREMENTS.

RELEASED FOR:  
**PRELIMINARY/FINAL**  
**NOT FOR CONSTRUCTION**  
PROJECT MANAGER: NAS  
BASE BY: SURVEY  
DRAWN BY: CJC  
DATE: 07/13/20  
N.B. N/A  
DESIGNED BY: CJC  
CHKD:



**SSM**  
SPOTTS, STEVENS & MCCOY  
Engineers and Consultants  
sengroup.com

**READING**  
110187.0001  
PO Box 5370  
Seattle, WA 98106  
206.461.1111  
110187.0001

**LEHIGH VALLEY**  
1600 N. Cedar Crest Blvd.  
Allentown, PA 18103  
610.444.0700  
101 East Evans Street  
Allentown, PA 18101  
610.421.2000

**GRINDLINE SKATEPARKS, INC.**  
4619 14TH AVENUE SW, SEATTLE WA 98106  
**READING SKATEPARK**  
**ELECTRICAL - LIGHTING**  
**PLAN**  
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07/13/20  
DATE  
110187.0001  
EL 1-02  
DIGITAL FILENAME  
**110187.0001**  
WORK ORDER NUMBER  
**EL.1-02**  
DRAWING NUMBER





RENDERINGS FOR REFERENCE ONLY- NOT FOR CONSTRUCTION



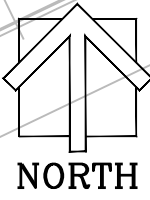
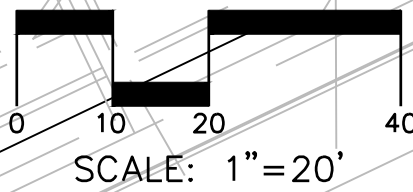
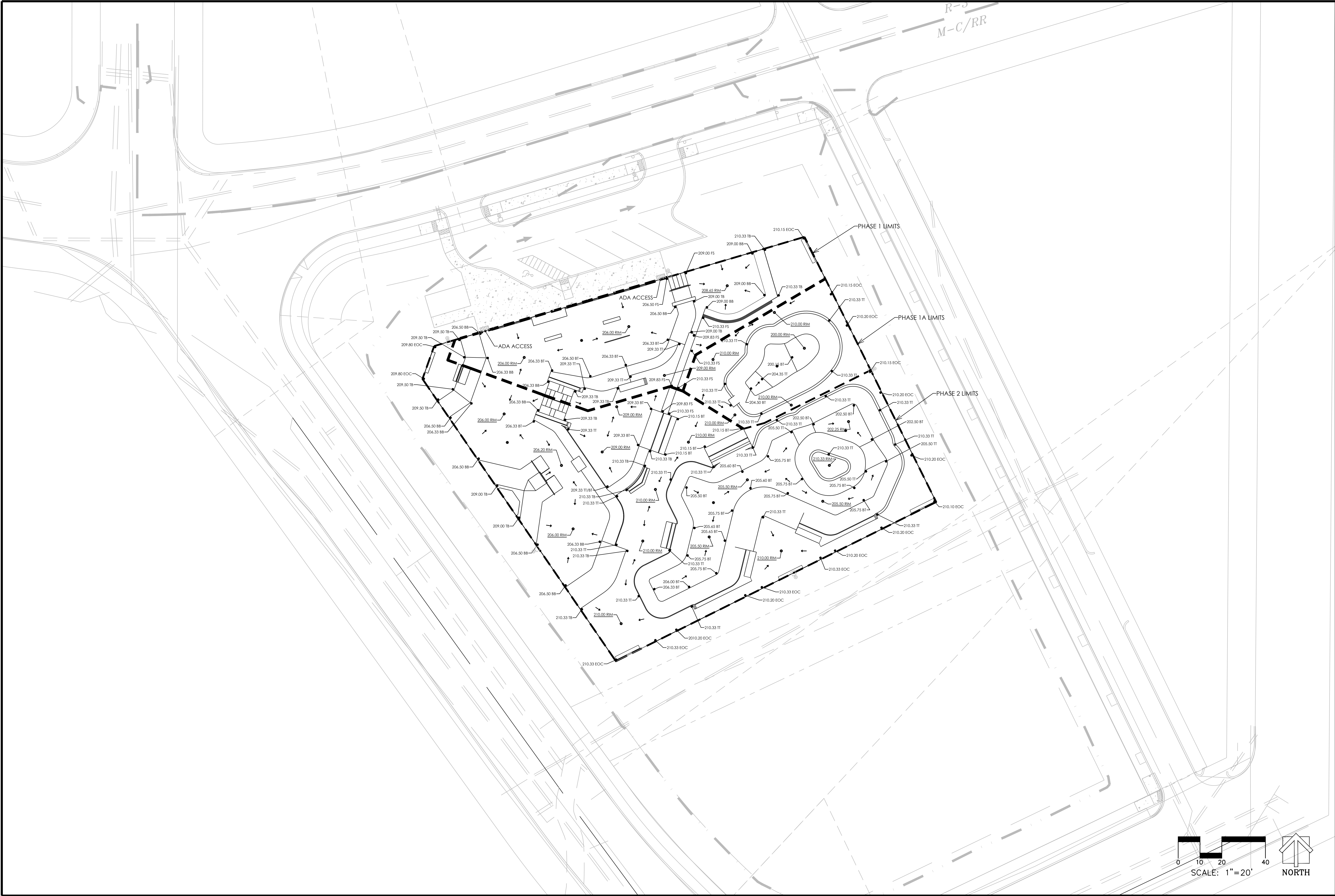
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CONCRETE SKATEPARK DESIGN & CONSTRUCTION  
4619 14th Ave SW  
Seattle WA 98106  
P: 206.932.6414 F: 206.932.6840  
www.grindline.com



SCALE:	N.T.S.
SKATEPARK RENDERINGS	
PROJECT: READING SKATEPARK	
LOCATION: READING, PA	
SHEET:	
SP1.1	
DATE: 03.12.21	
DRAWN BY: BAJ	
CHECKED BY: MBF	

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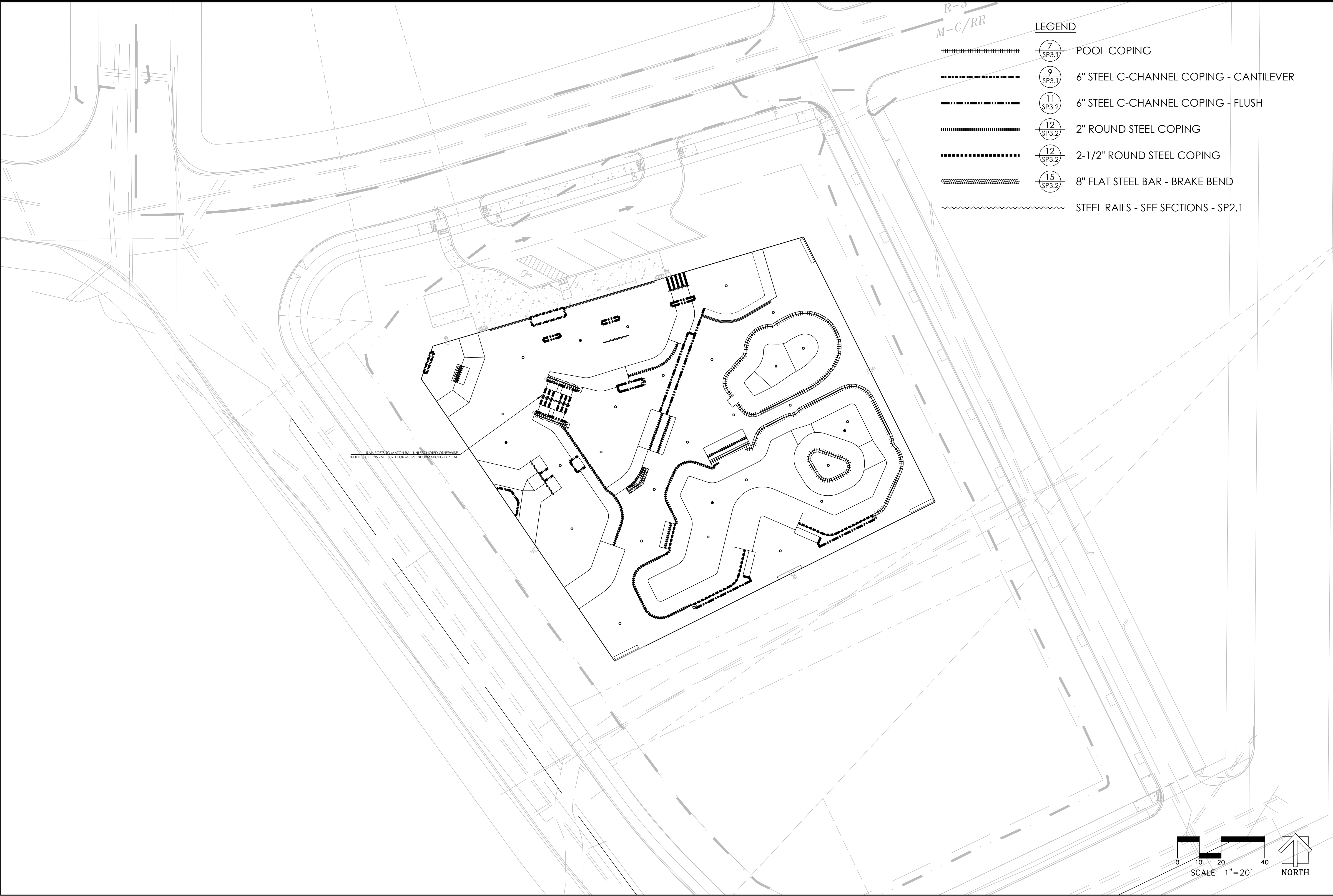
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Seattle WA 98106  
P: 206.932.6414 F: 206.932.6840  
www.grndline.com



SCALE: 1" = 20'	SHEET: <b>SP1.2</b>	DATE: 03.12.21
SITE PLAN		DRAWN BY: BAJ CHECKED BY: MBF
PROJECT: READING SKATEPARK LOCATION: READING, PA		

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- LEGEND
- 7 SP3.1 POOL COPING
  - 9 SP3.1 6" STEEL C-CHANNEL COPING - CANTILEVER
  - 11 SP3.2 6" STEEL C-CHANNEL COPING - FLUSH
  - 12 SP3.2 2" ROUND STEEL COPING
  - 12 SP3.2 2-1/2" ROUND STEEL COPING
  - 15 SP3.2 8" FLAT STEEL BAR - BRAKE BEND
  - STEEL RAILS - SEE SECTIONS - SP2.1

**GROUNDLINE**  
CONCRETE SKATEPARK DESIGN & CONSTRUCTION  
4619 14th Ave SW  
Seattle WA 98106  
P: 206.932.6414 F: 206.932.6840  
www.grndline.com

COMMONWEALTH OF PENNSYLVANIA  
REGISTERED PROFESSIONAL ENGINEER  
NICHOLAS A. SZEREDAI  
PE085674

SCALE: 1" = 20'

COPING MATERIALS PLAN

PROJECT: READING SKATEPARK  
LOCATION: READING, PA

SHEET: SP1.3

DATE: 03.12.21

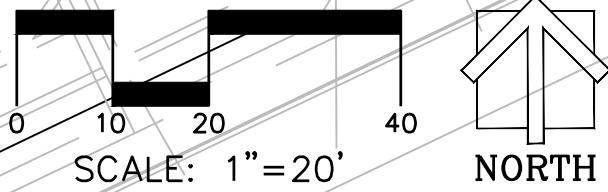
DRAWN BY: BAJ  
CHECKED BY: MBF

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- LEGEND
- 1 SP3.1 CONCRETE SURFACING
  - 2 SP3.1 SHOTCRETE SURFACING
  - 3 SP3.1 CONCRETE EDGE
  - 6 SP3.1 DRAIN
  - 8 SP3.1 REINFORCED CONCRETE LEDGE - CANTILEVER EDGE
  - 10 SP3.2 REINFORCED CONCRETE LEDGE - FLUSH EDGE
  - 13 SP3.2 HANDRAIL FOOTING - END POST
  - 14 SP3.2 HANDRAIL FOOTING - CENTER POST
  - 16 SP3.2 DRAIN BODY



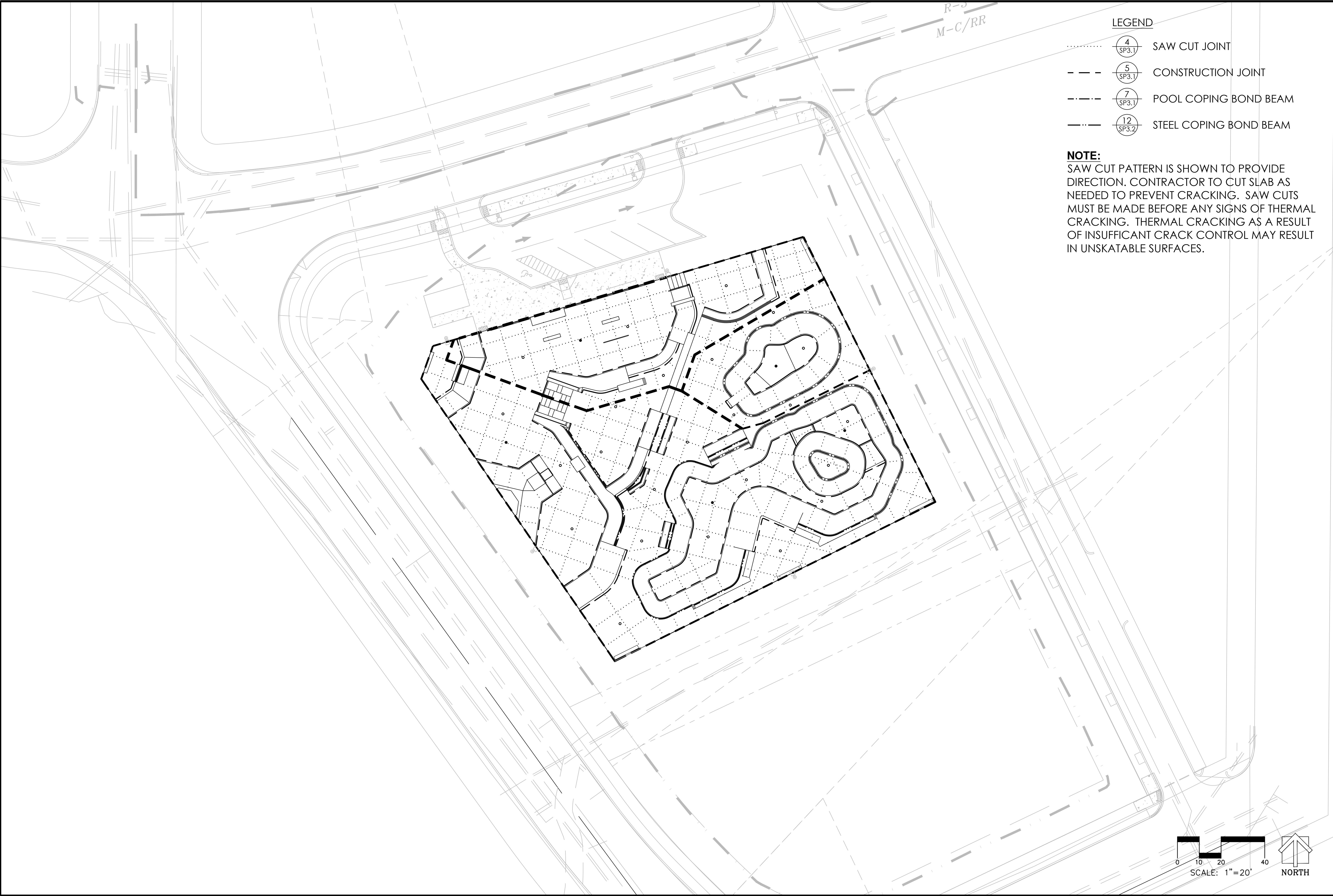
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CONCRETE SKATEPARK DESIGN & CONSTRUCTION  
4619 14th Ave SW  
Seattle WA 98106  
P: 206.932.6414 F: 206.932.6840  
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CONCRETE MATERIALS PLAN	SCALE: 1" = 20'
	SHEET: SP1.4
PROJECT: READING SKATEPARK	DATE: 03.12.21
LOCATION: READING, PA	DRAWN BY: BAJ CHECKED BY: MBF

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- LEGEND**
- ..... (4) SP3.1 SAW CUT JOINT
  - - - (5) SP3.1 CONSTRUCTION JOINT
  - · - · - (7) SP3.1 POOL COPING BOND BEAM
  - · — · — (12) SP3.2 STEEL COPING BOND BEAM

**NOTE:**  
SAW CUT PATTERN IS SHOWN TO PROVIDE DIRECTION. CONTRACTOR TO CUT SLAB AS NEEDED TO PREVENT CRACKING. SAW CUTS MUST BE MADE BEFORE ANY SIGNS OF THERMAL CRACKING. THERMAL CRACKING AS A RESULT OF INSUFFICANT CRACK CONTROL MAY RESULT IN UNSKATABLE SURFACES.



SCALE: 1" = 20'

CONCRETE JOINTS

PROJECT: READING SKATEPARK

LOCATION: READING, PA

SHEET: SP1.5

DATE: 03.12.21

DRAWN BY: BAJ

CHECKED BY: MBF

**GROUNDLINE**

CONCRETE SKATEPARK DESIGN & CONSTRUCTION

4619 14th Ave SW  
Seattle WA 98106  
P: 206.932.6414 F: 206.932.6840  
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Line Table	
Line (#)	Length (FT)
L1	16.00
L2	12.39
L3	15.00
L4	19.00
L5	16.00
L6	43.25
L7	8.00
L8	57.37
L9	66.24
L10	69.47
L11	164.00
L12	29.07
L13	115.39
L14	12.39
L15	9.00
L16	4.00
L17	8.00
L18	4.00
L19	9.00
L20	19.00

Line Table	
Line (#)	Length (FT)
L21	4.00
L22	16.00
L23	4.00
L24	43.25
L25	6.00
L26	6.00
L27	11.00
L28	1.50
L29	3.33
L30	5.75
L31	51.75
L32	38.75
L33	2.00
L34	12.00
L35	7.50
L36	12.00
L37	3.00
L38	5.50
L39	6.17
L40	15.42

Line Table	
Line (#)	Length (FT)
L41	1.70
L42	15.00
L43	3.50
L44	8.00
L45	3.50
L46	15.00
L47	15.42
L48	1.70
L49	1.50
L50	1.50
L51	4.50
L52	6.00
L53	14.00
L54	14.00
L55	1.00
L56	5.92
L57	6.03
L58	5.92
L59	1.00
L60	8.00

Line Table	
Line (#)	Length (FT)
L61	1.50
L62	8.00
L63	1.50
L64	11.75
L65	10.00
L66	1.50
L67	13.36
L68	12.50
L69	10.00
L70	3.00
L71	33.00
L72	4.50
L73	6.00
L74	4.50
L75	6.48
L76	7.15
L77	7.15
L78	8.25
L79	18.00
L80	6.00

Line Table	
Line (#)	Length (FT)
L81	14.00
L82	17.39
L83	22.79
L84	4.00
L85	3.52
L86	10.75
L87	24.00
L88	3.51
L89	20.00
L90	20.00
L91	5.00
L92	9.75
L93	20.00
L94	18.50
L95	16.00
L96	1.26
L97	18.33
L98	12.00
L99	16.00
L100	16.00

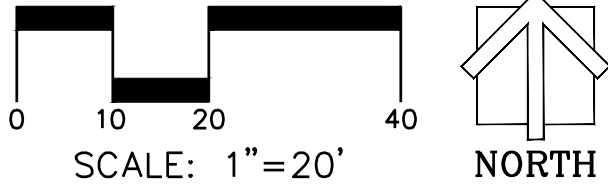
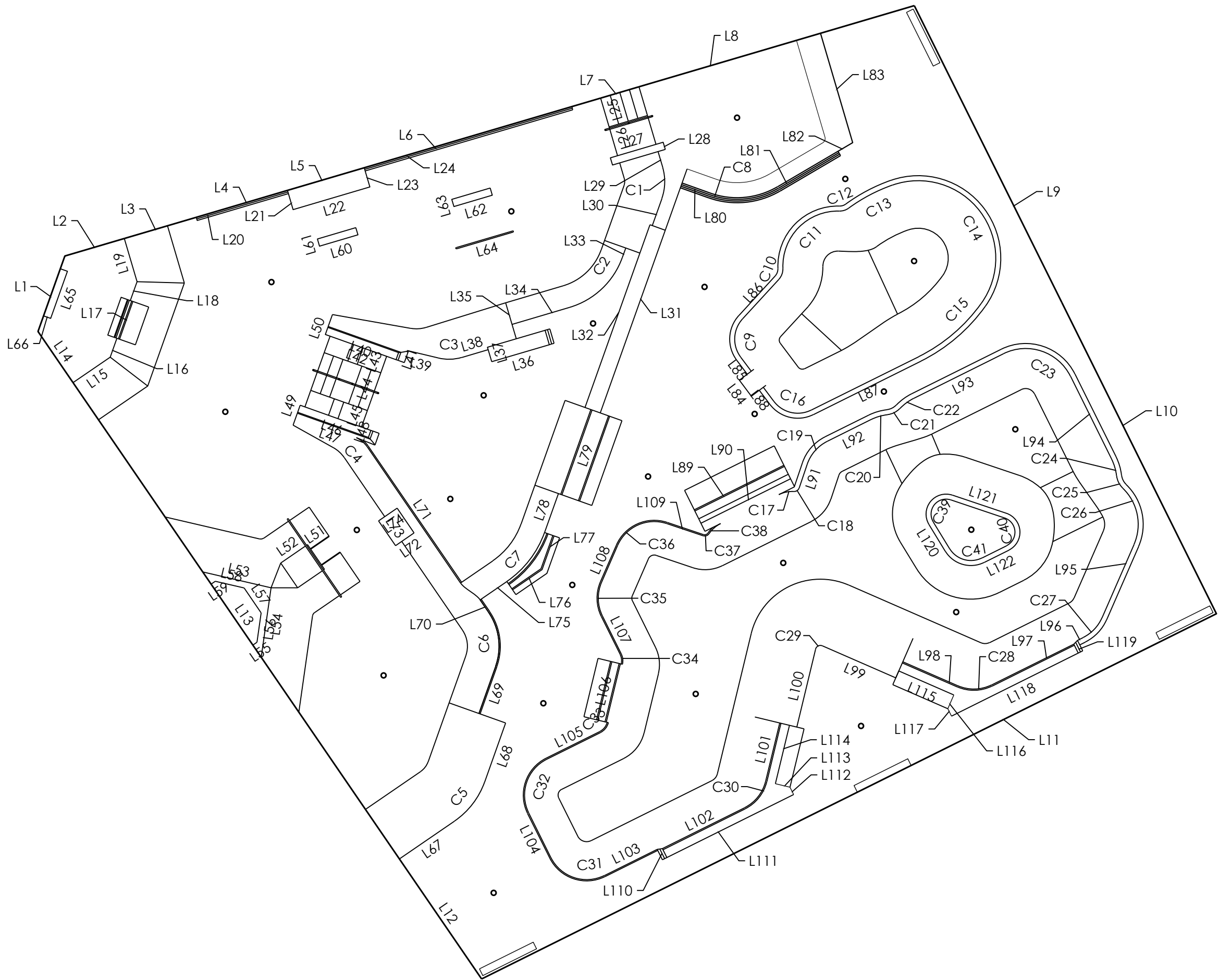
Line Table	
Line (#)	Length (FT)
L101	12.00
L102	18.33
L103	11.77
L104	9.94
L105	12.00
L106	12.00
L107	8.50
L108	7.98
L109	7.64
L110	2.17
L111	29.29
L112	1.64
L113	3.00
L114	12.00
L115	12.00
L116	3.00
L117	1.64
L118	29.29
L119	2.17
L120	6.25

Line Table	
Line (#)	Length (FT)
L121	11.39
L122	5.51

Curve Table		
Curve #	Arc Length (FT)	Radius (FT)
C1	6.28	10.00
C2	15.08	16.00
C3	4.71	9.00
C4	2.86	5.25
C5	10.05	16.00
C6	11.31	12.00
C7	12.88	20.50
C8	14.25	16.33
C9	8.32	6.00
C10	2.36	3.00
C11	18.04	11.00
C12	1.98	3.00
C13	9.95	34.00
C14	39.23	15.50
C15	16.62	34.00
C16	8.33	6.00
C17	3.14	6.00
C18	1.31	1.00
C19	6.28	8.00
C20	3.49	10.00

Curve Table		
Curve #	Arc Length (FT)	Radius (FT)
C21	2.79	4.00
C22	3.49	10.00
C23	15.71	10.00
C24	3.49	10.00
C25	2.79	4.00
C26	12.22	10.00
C27	5.59	8.00
C28	6.98	8.00
C29	1.75	1.00
C30	7.20	8.25
C31	12.57	8.00
C32	12.57	8.00
C33	2.62	3.00
C34	2.09	3.00
C35	6.98	8.00
C36	11.87	8.00
C37	1.31	1.00
C38	3.14	6.00
C39	9.77	4.00
C40	9.42	4.00

Curve Table		
Curve #	Arc Length (FT)	Radius (FT)
C41	8.90	6.00



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SCALE:  
1" = 20'

LINES AND CURVES PLAN  
PROJECT: READING SKATEPARK  
LOCATION: READING, PA

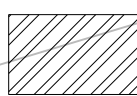

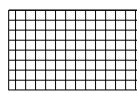
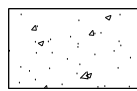
SHEET:  
**SP1.7**  
DATE: 03.12.21  
DRAWN BY: BAJ  
CHECKED BY: MBF

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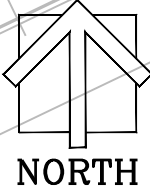
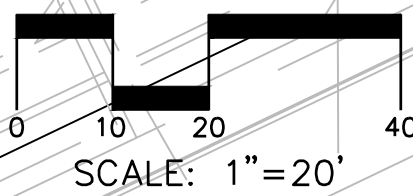




LEGEND

-  COLORED CONCRETE SURFACING TYPE 1 - DAVIS COLORS® CONCRETE MIX. COBBLESTONE (860) (CONCRETE CAPS ONLY, FOOTERS TO BE TYPE 3 - DAVIS COLORS® SANDSTONE (5237).
-  COLORED CONCRETE SURFACING TYPE 2 - DAVIS COLORS® CONCRETE MIX. BRICK RED (160)
-  COLORED CONCRETE SURFACING TYPE 3 - DAVIS COLORS® CONCRETE MIX. SANDSTONE (5237)
-  NATURAL GREY PORTLAND CONCRETE

NOTE: ALL COLORED CONCRETE SURFACING MIXES TO BE APPLIED PER MANUFACTURERS RECOMMENDATION. COLOR TO BE VERIFIED BY CLIENT AND GRINDLINE SKATEPARKS BEFORE INSTALLATION.



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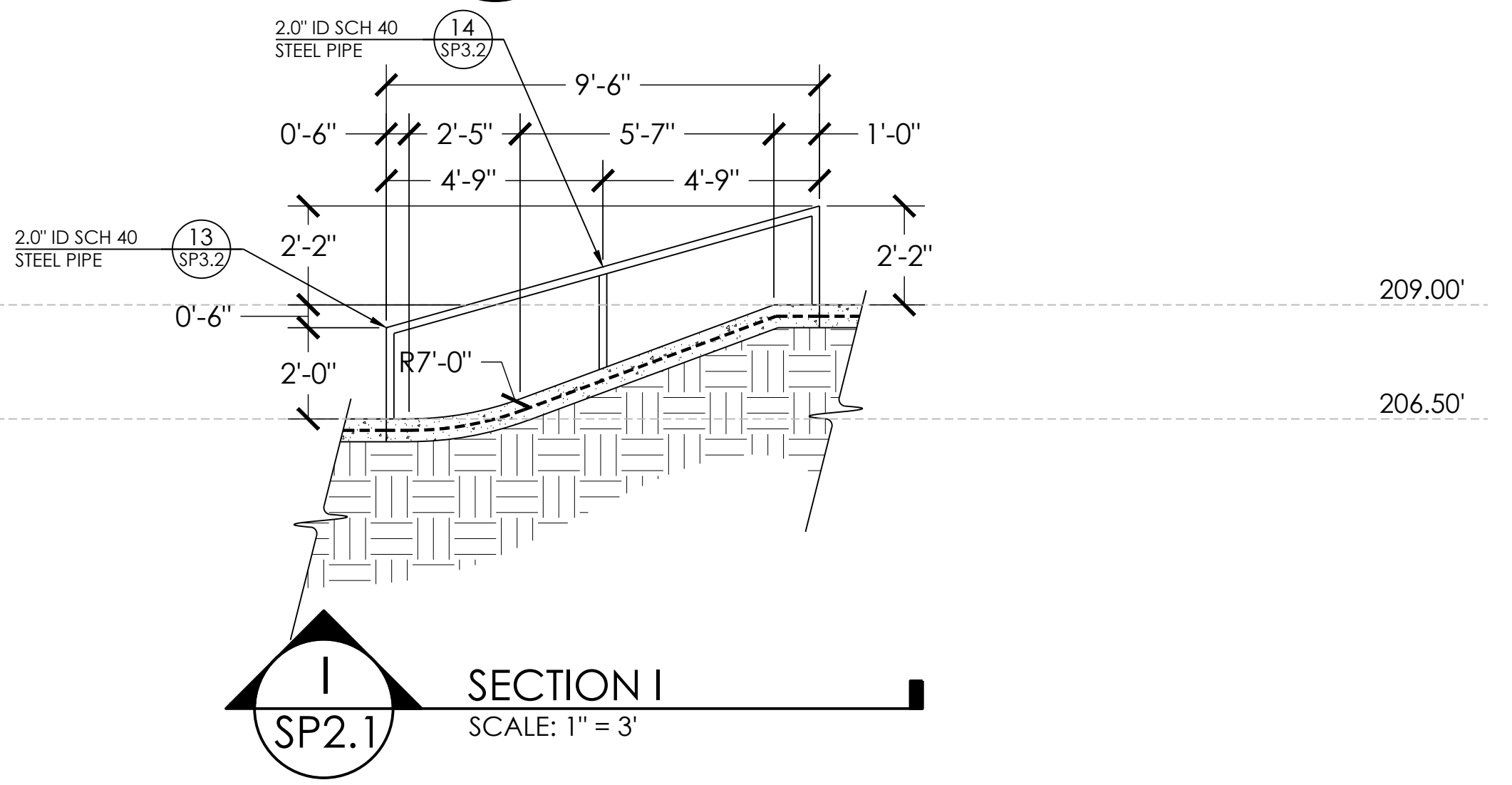
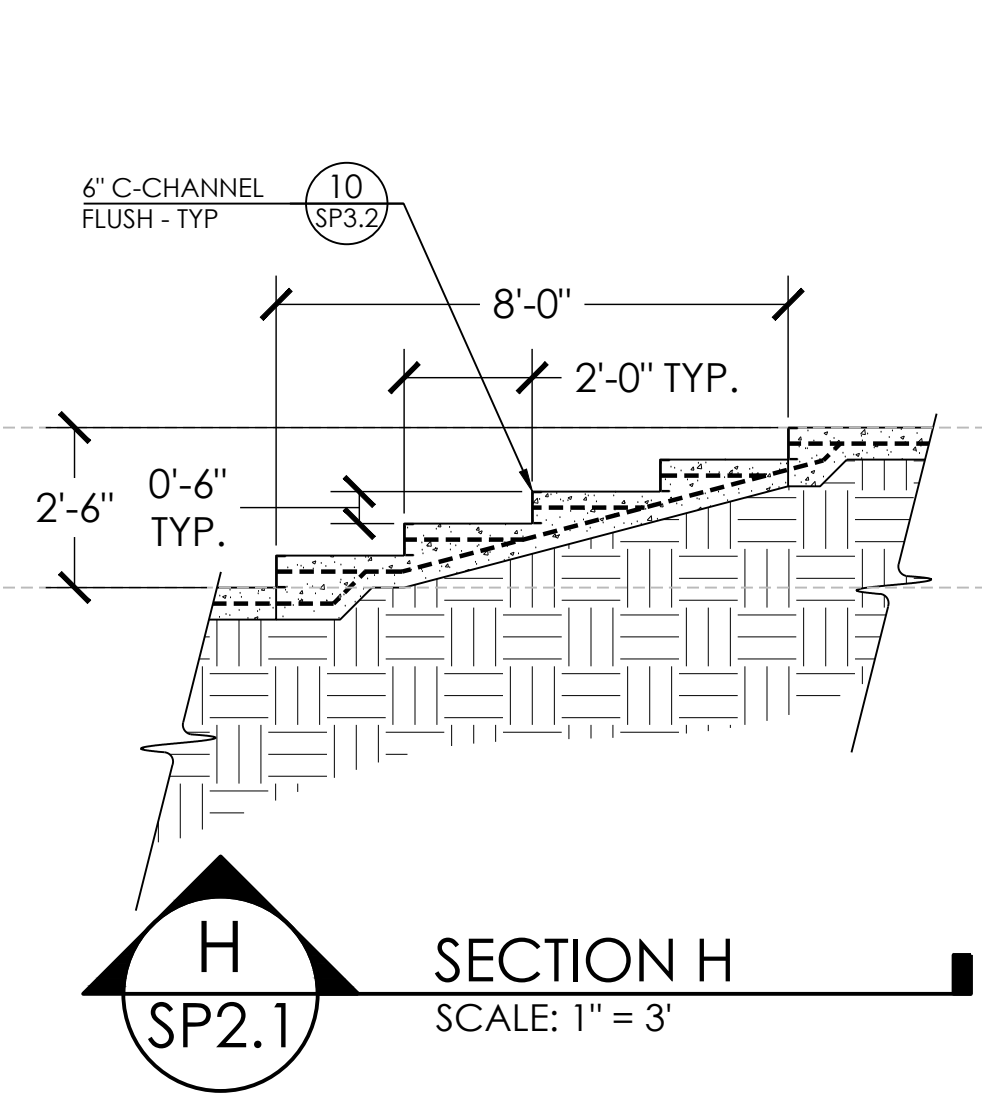
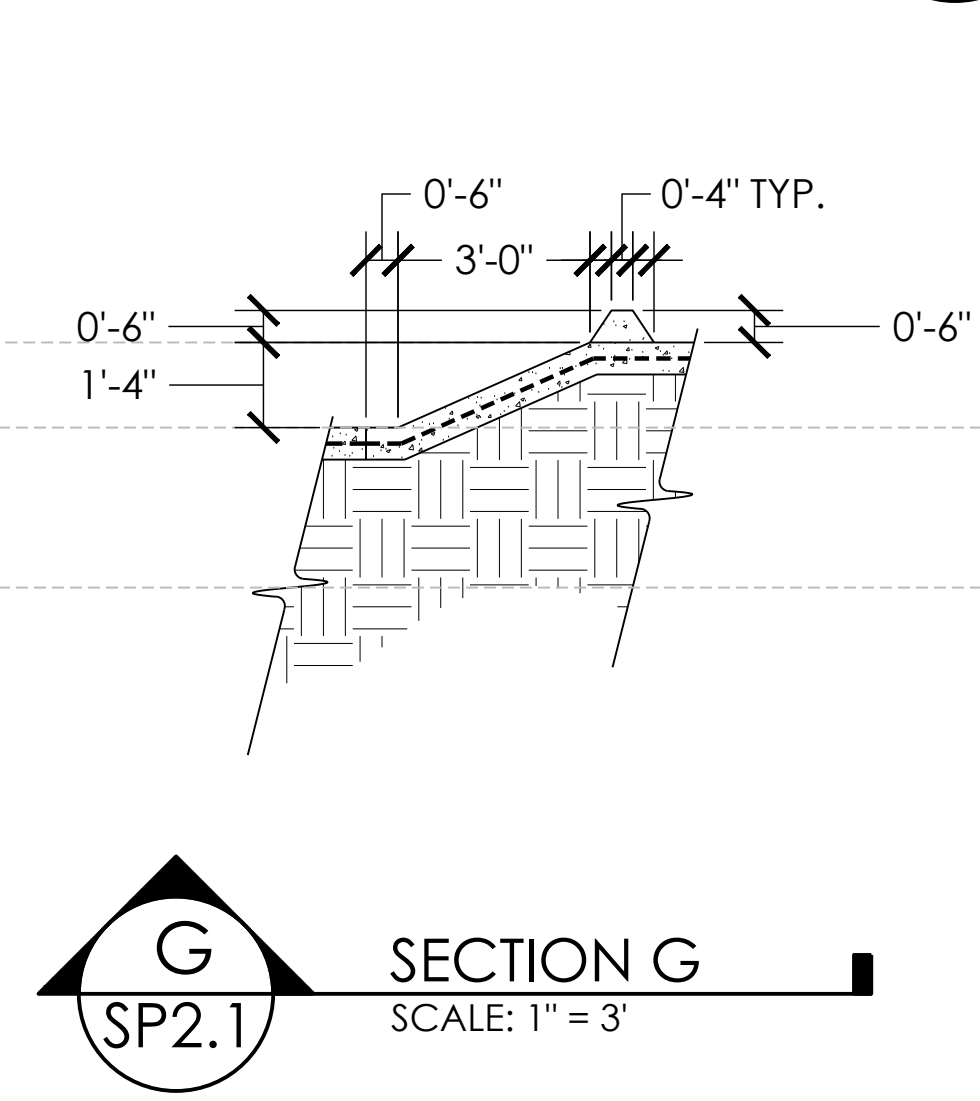
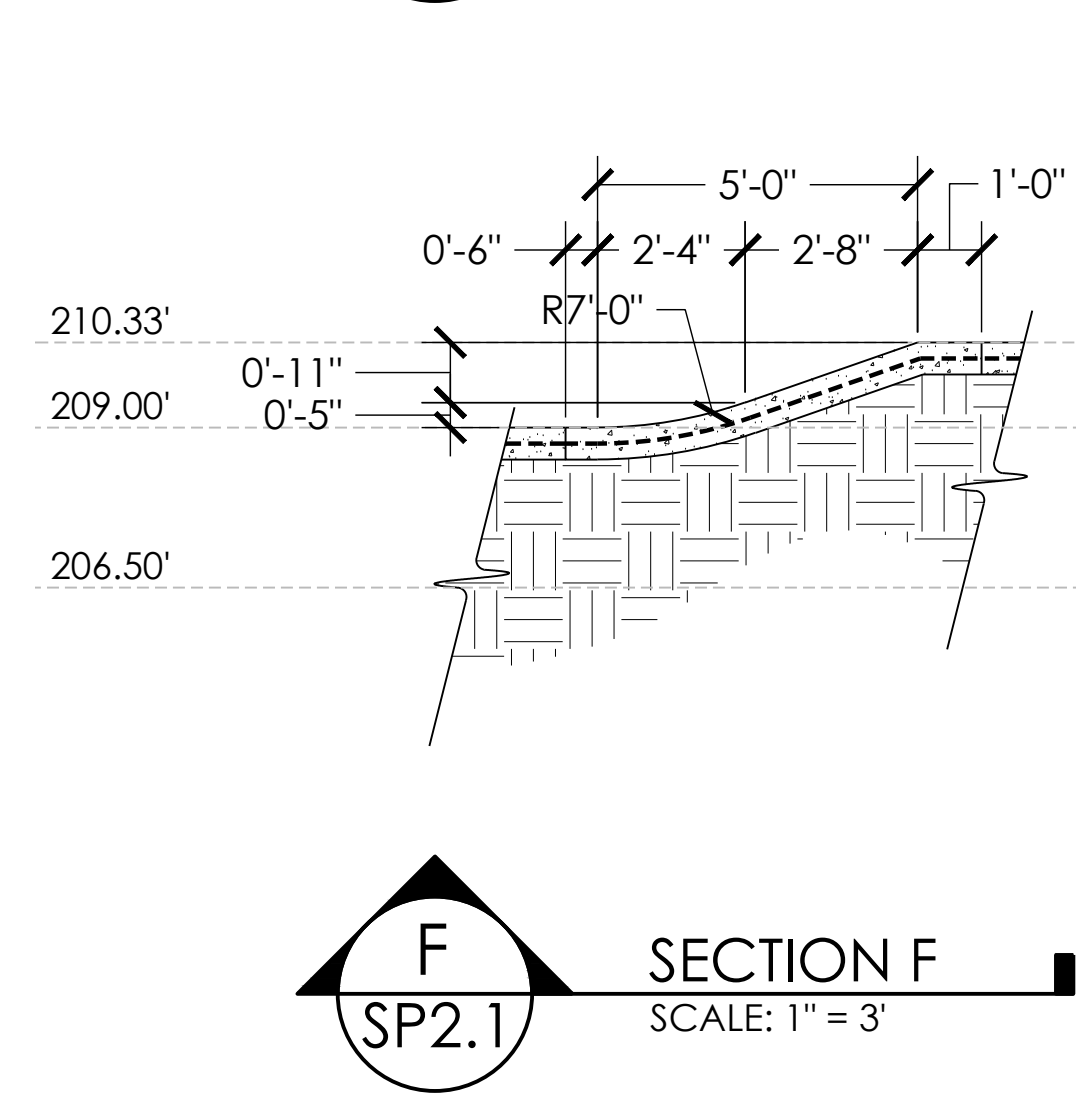
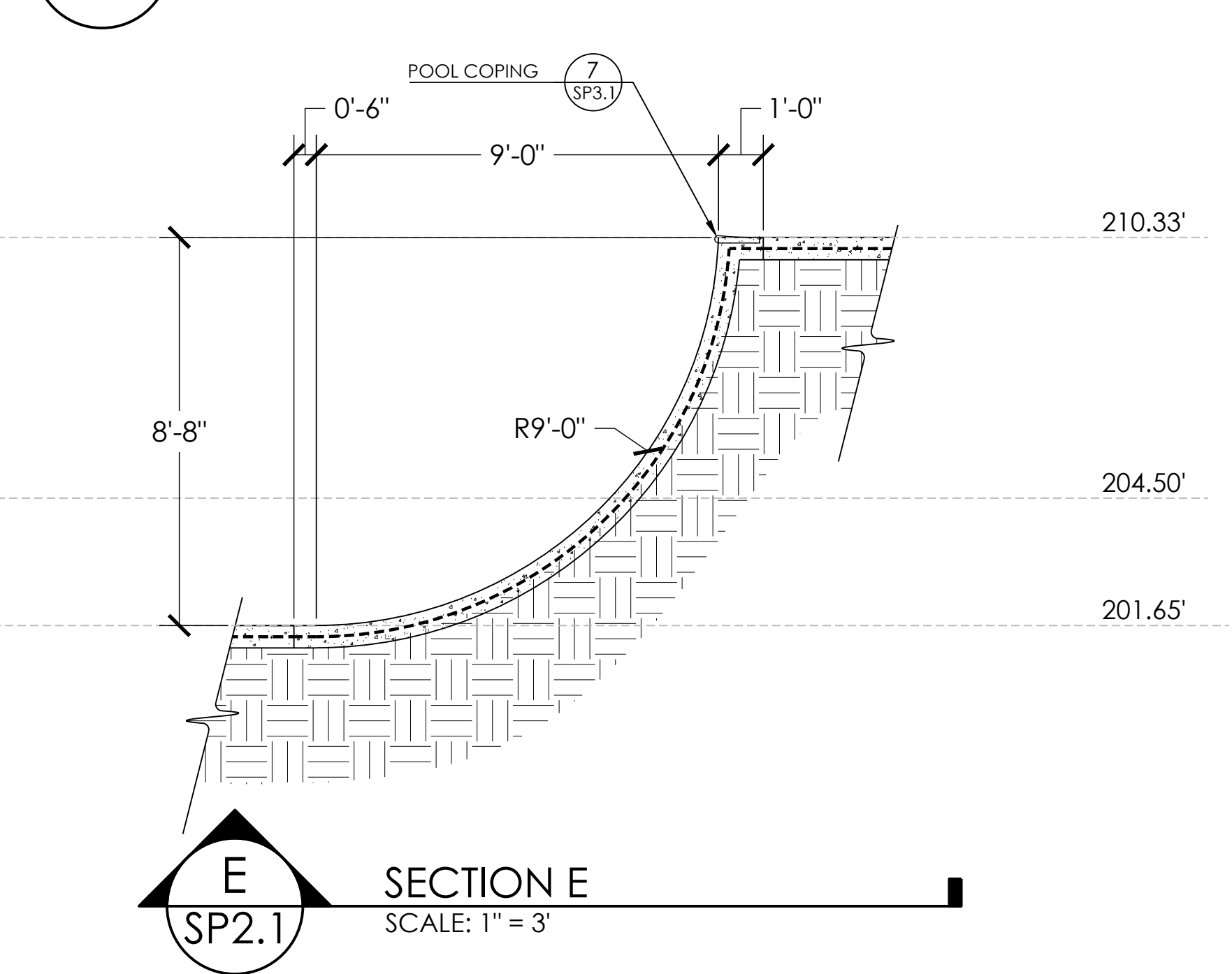
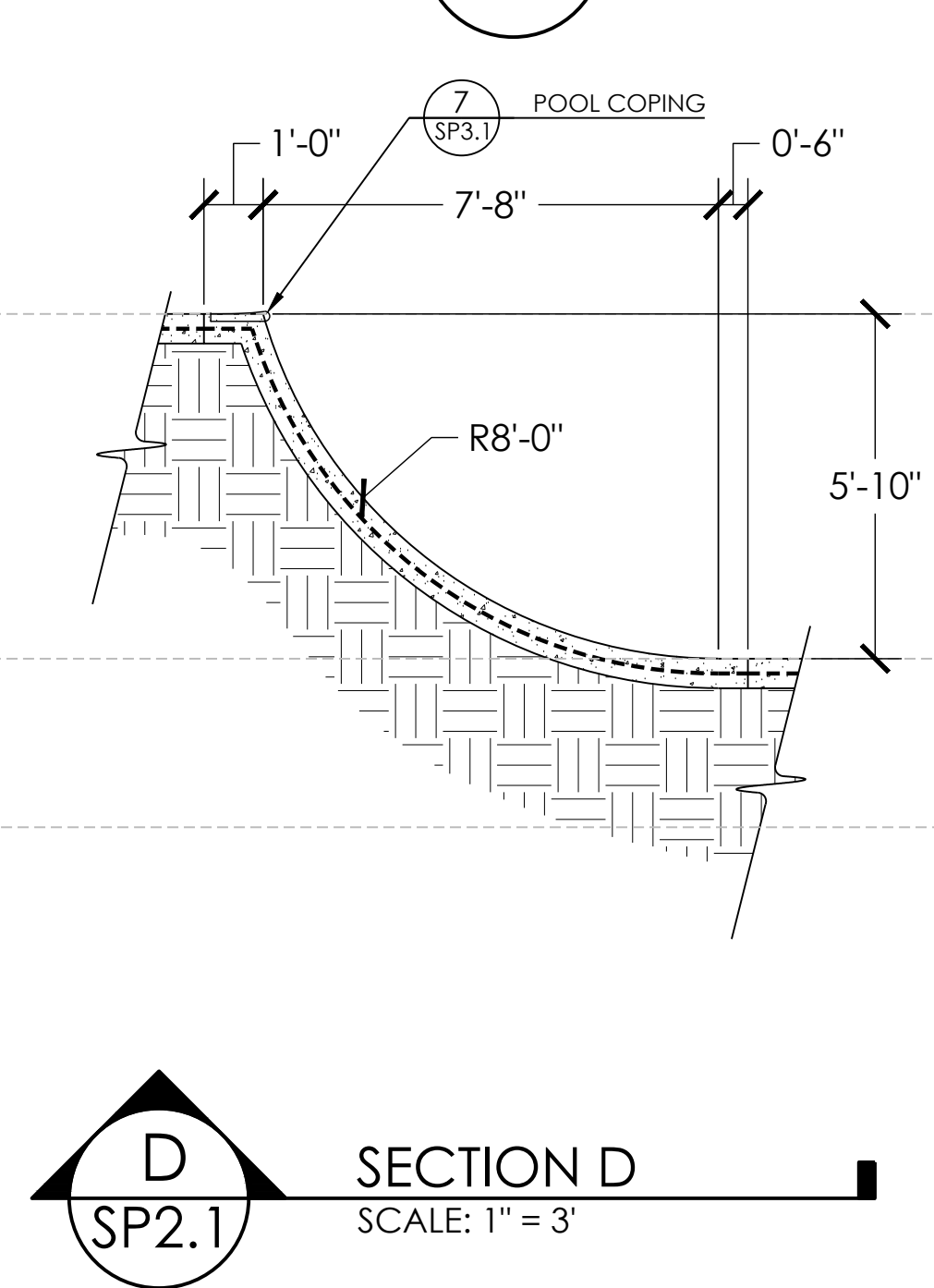
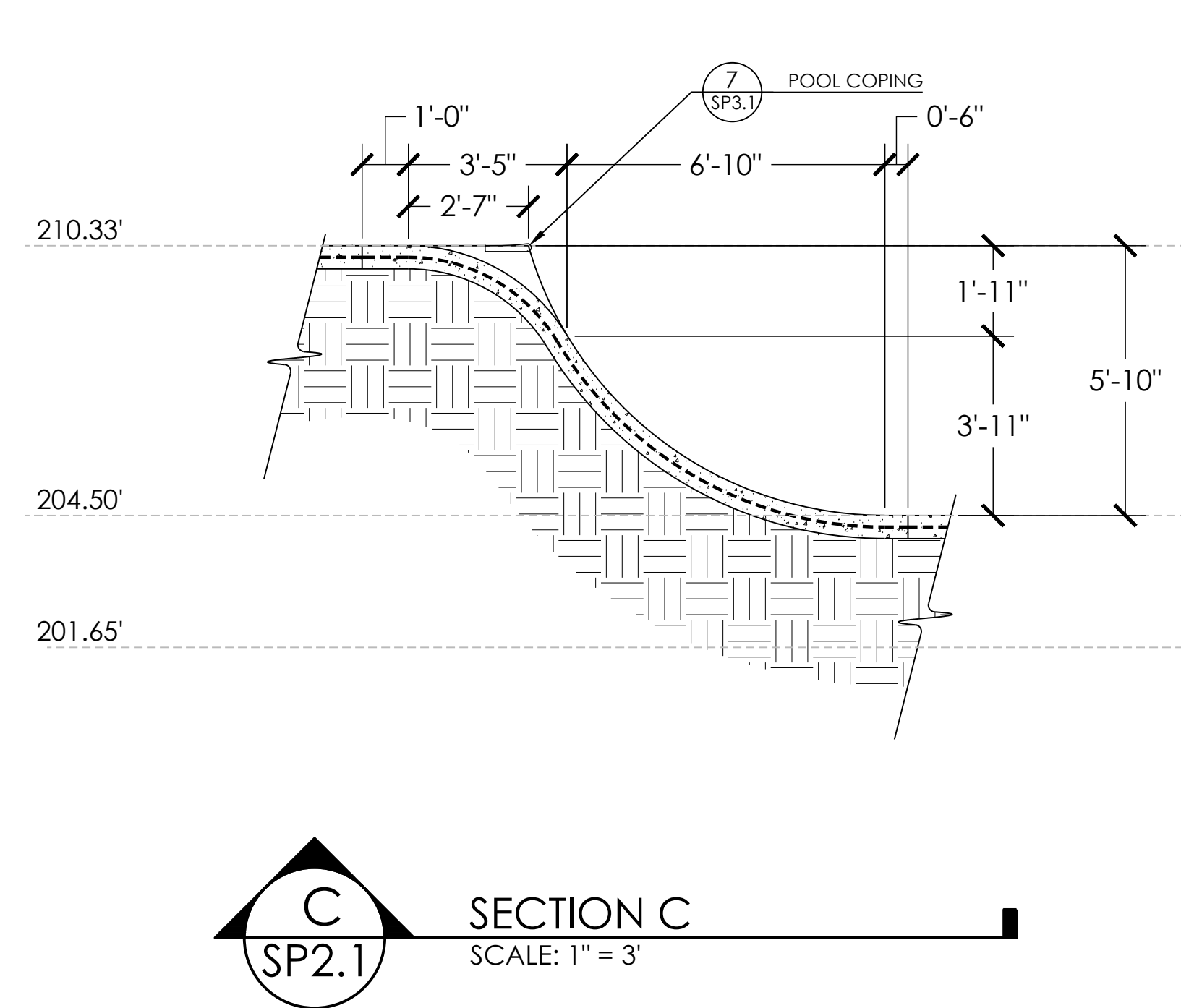
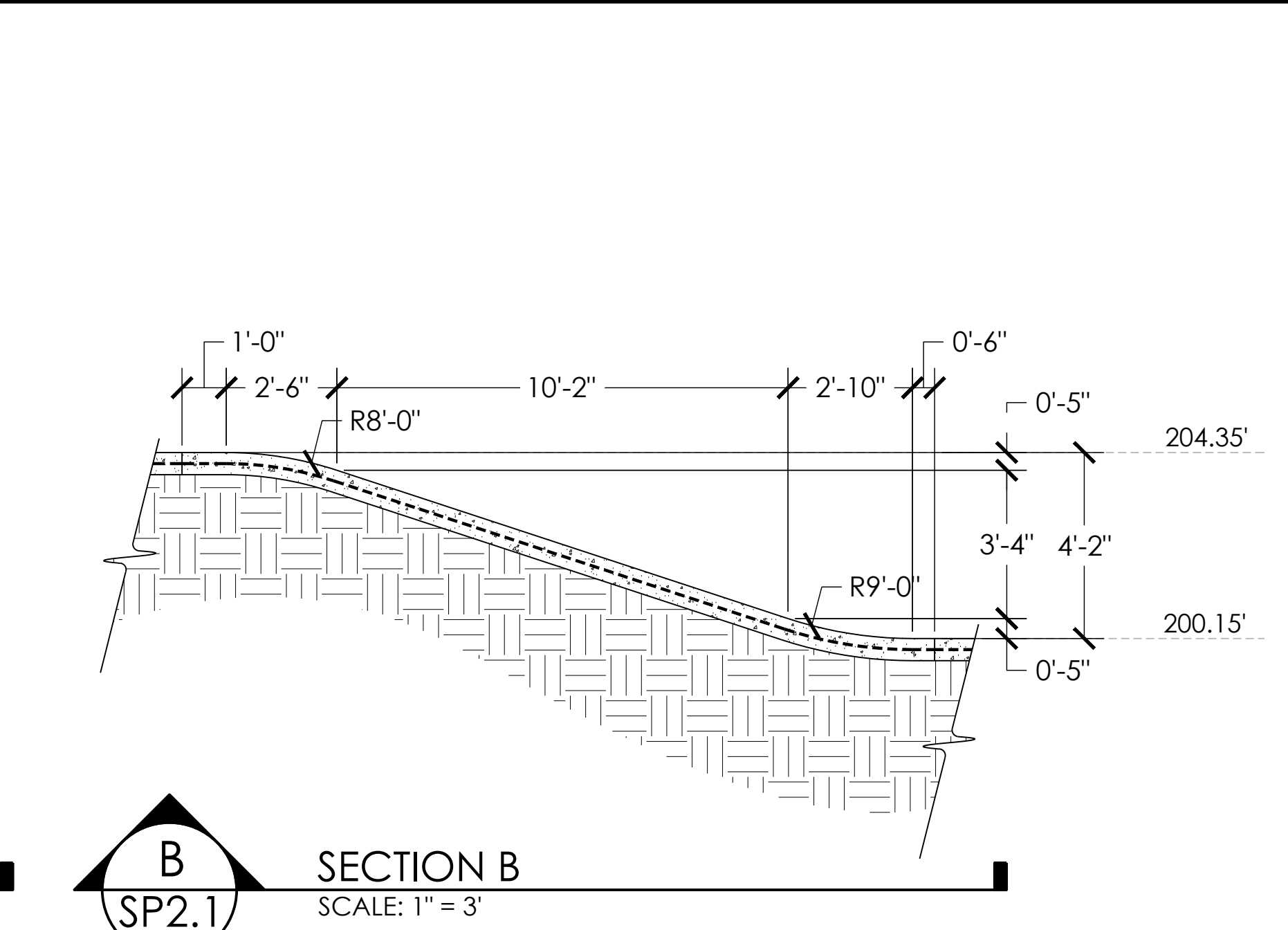
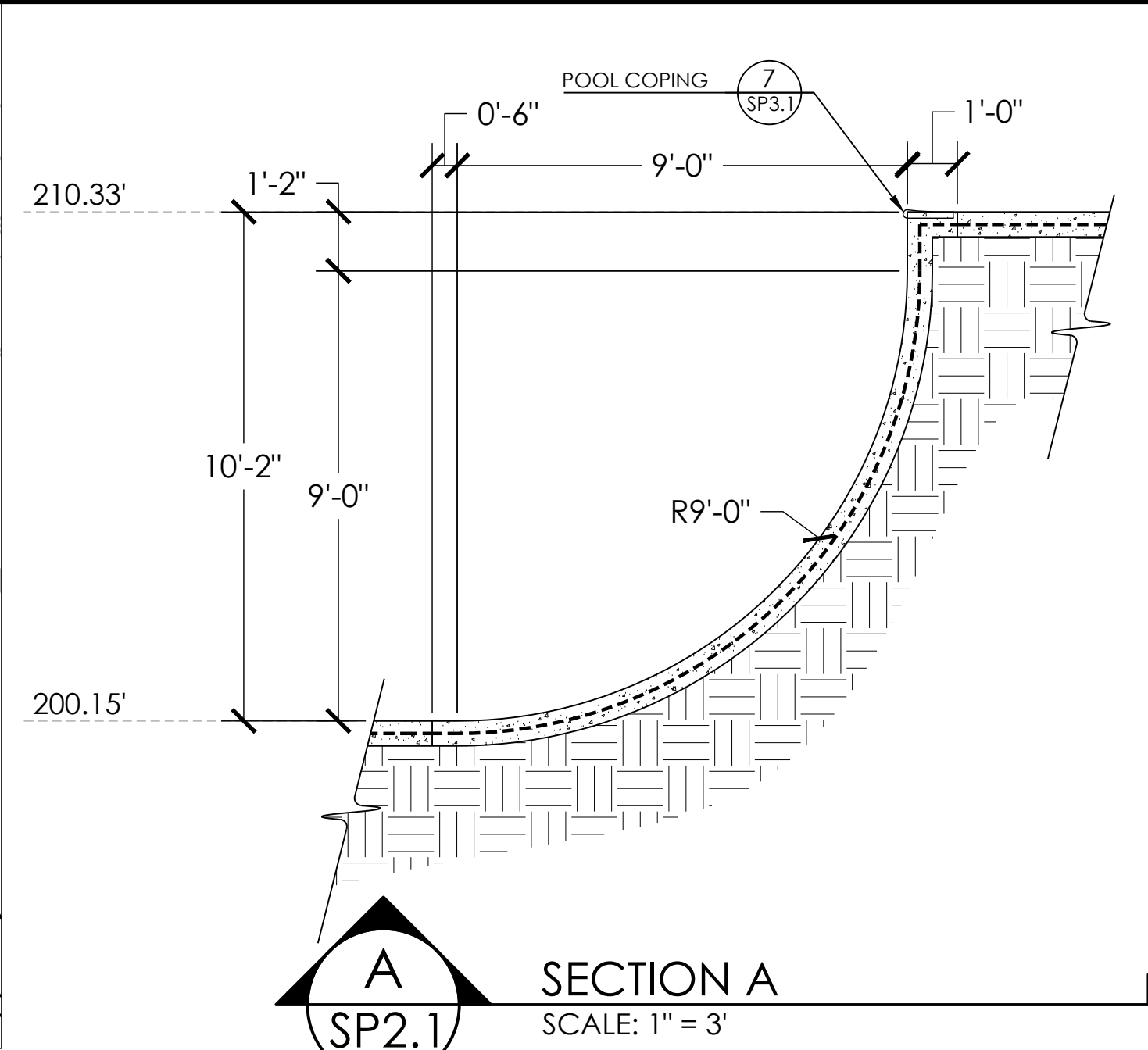
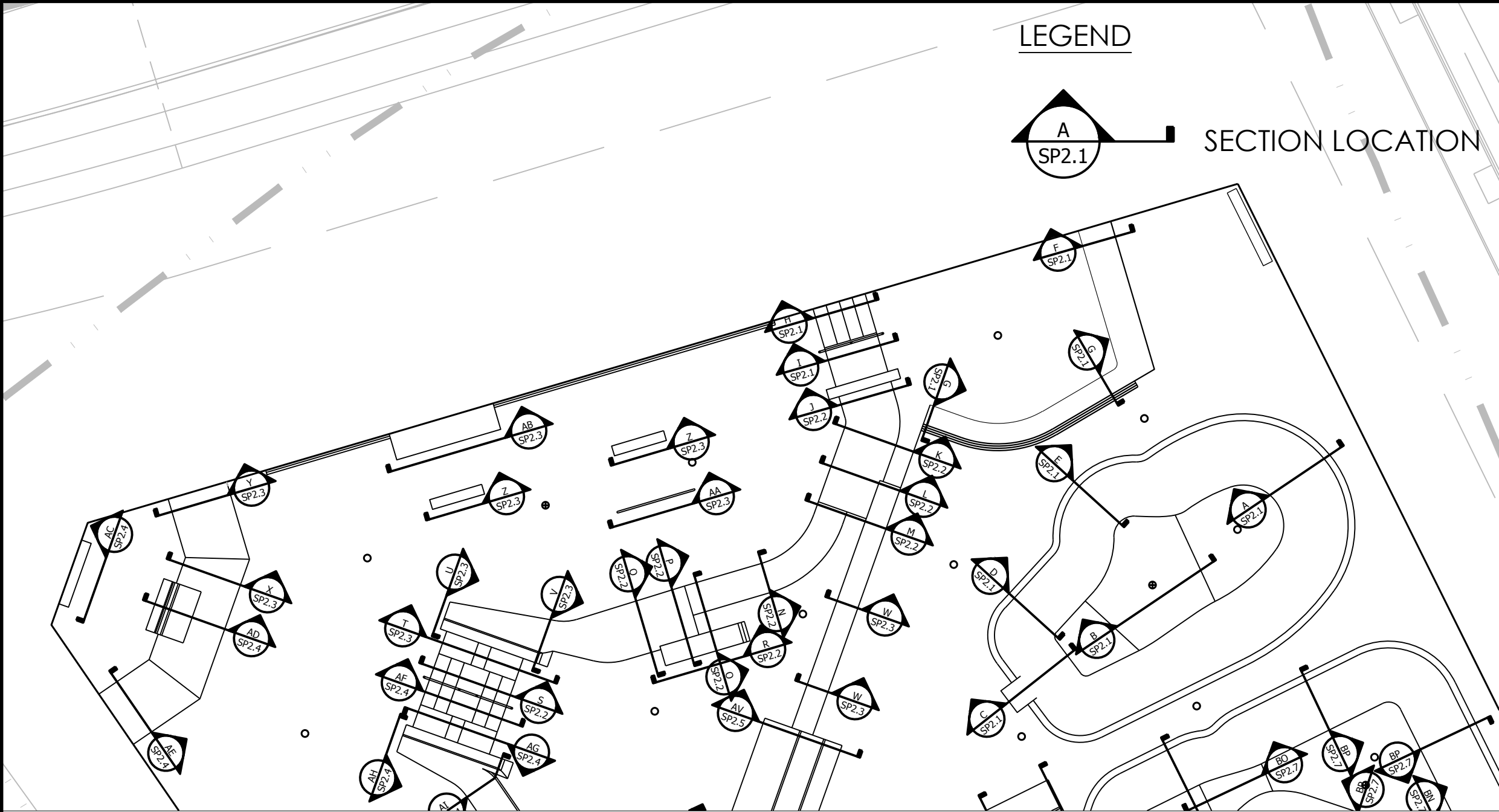
SCALE:  
1" = 20'

CONCRETE COLORS PLAN  
PROJECT: READING SKATEPARK  
LOCATION: READING, PA

SHEET:  
**SP1.8**  
DATE: 03.12.21  
DRAWN BY: BAJ  
CHECKED BY: MBF

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COMMONWEALTH OF PENNSYLVANIA  
REGISTERED PROFESSIONAL ENGINEER  
NICHOLAS A. SZEREDAI  
PE085674

SCALE: 1" = 3'

SECTIONS AND KEY

PROJECT: READING SKATEPARK  
LOCATION: READING, PA

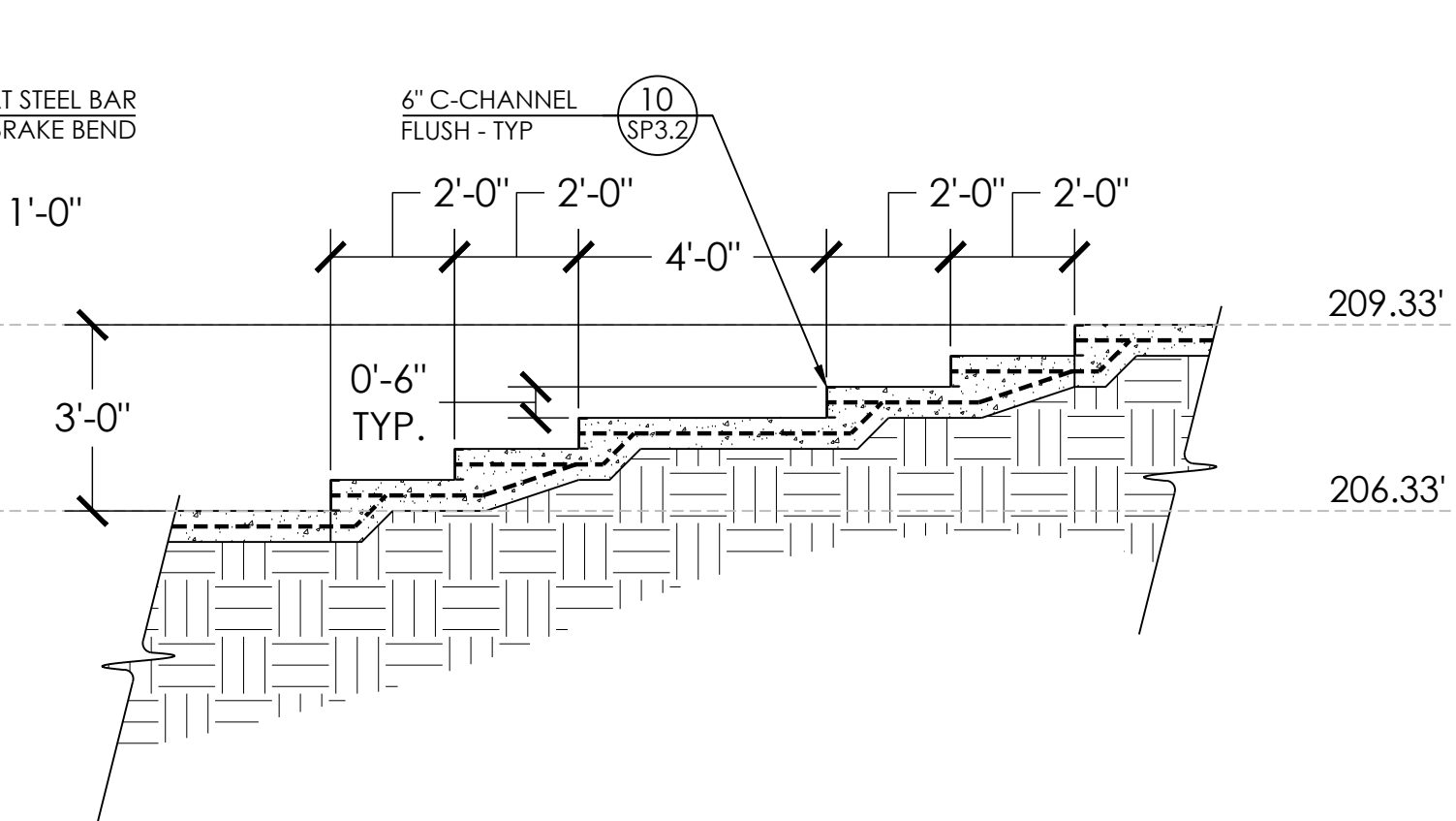
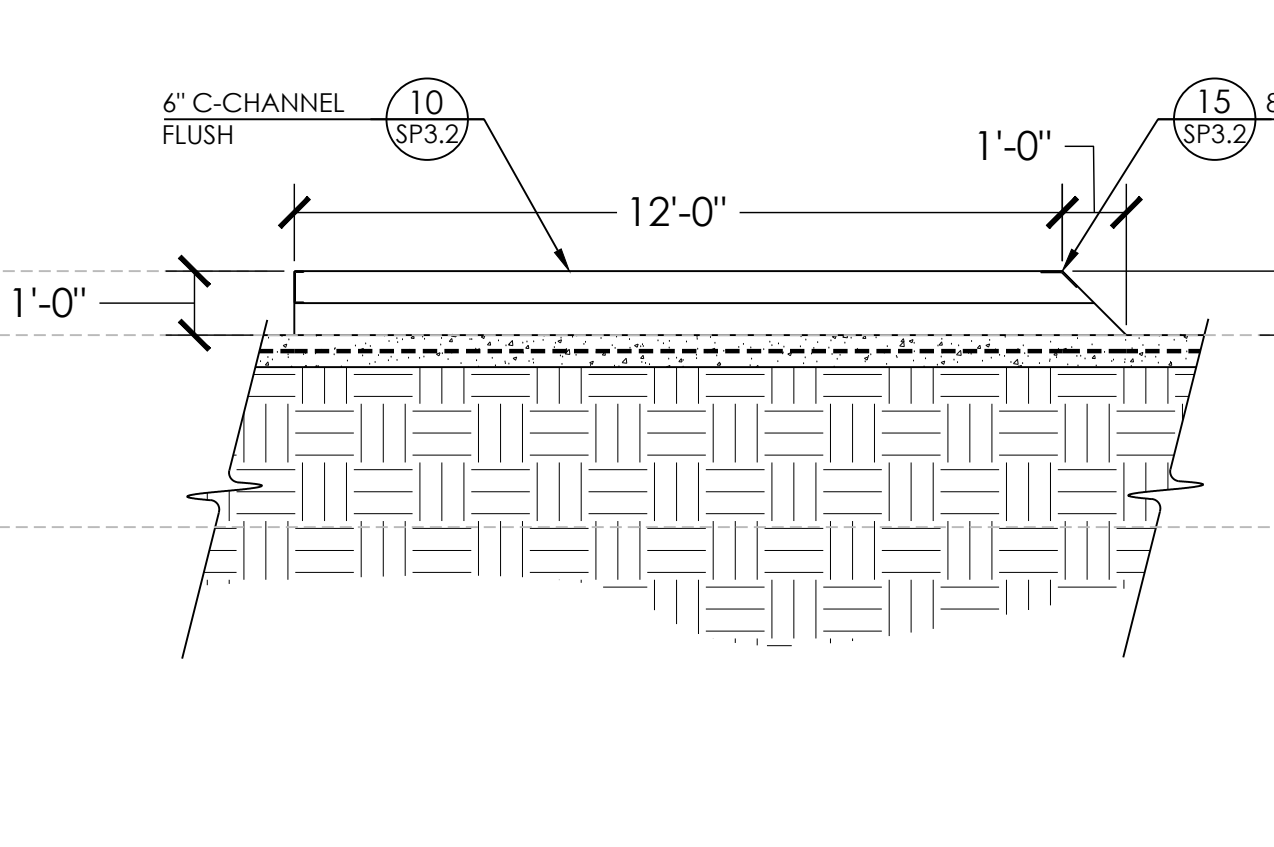
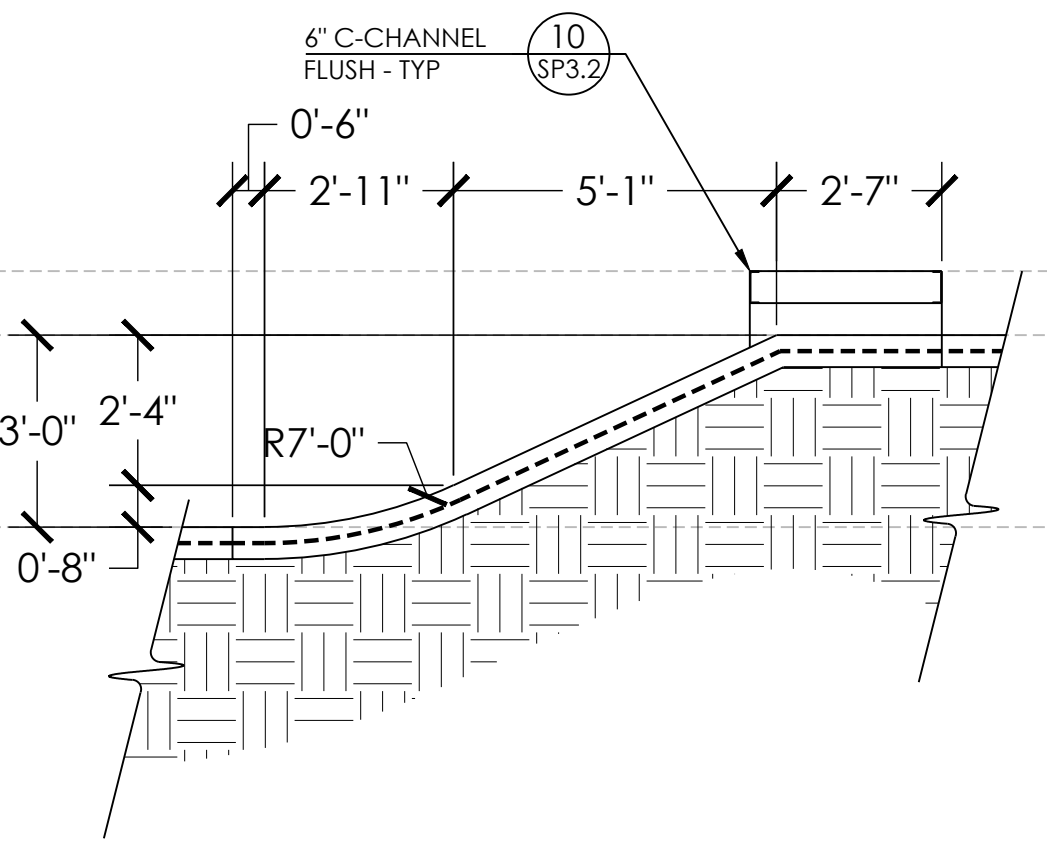
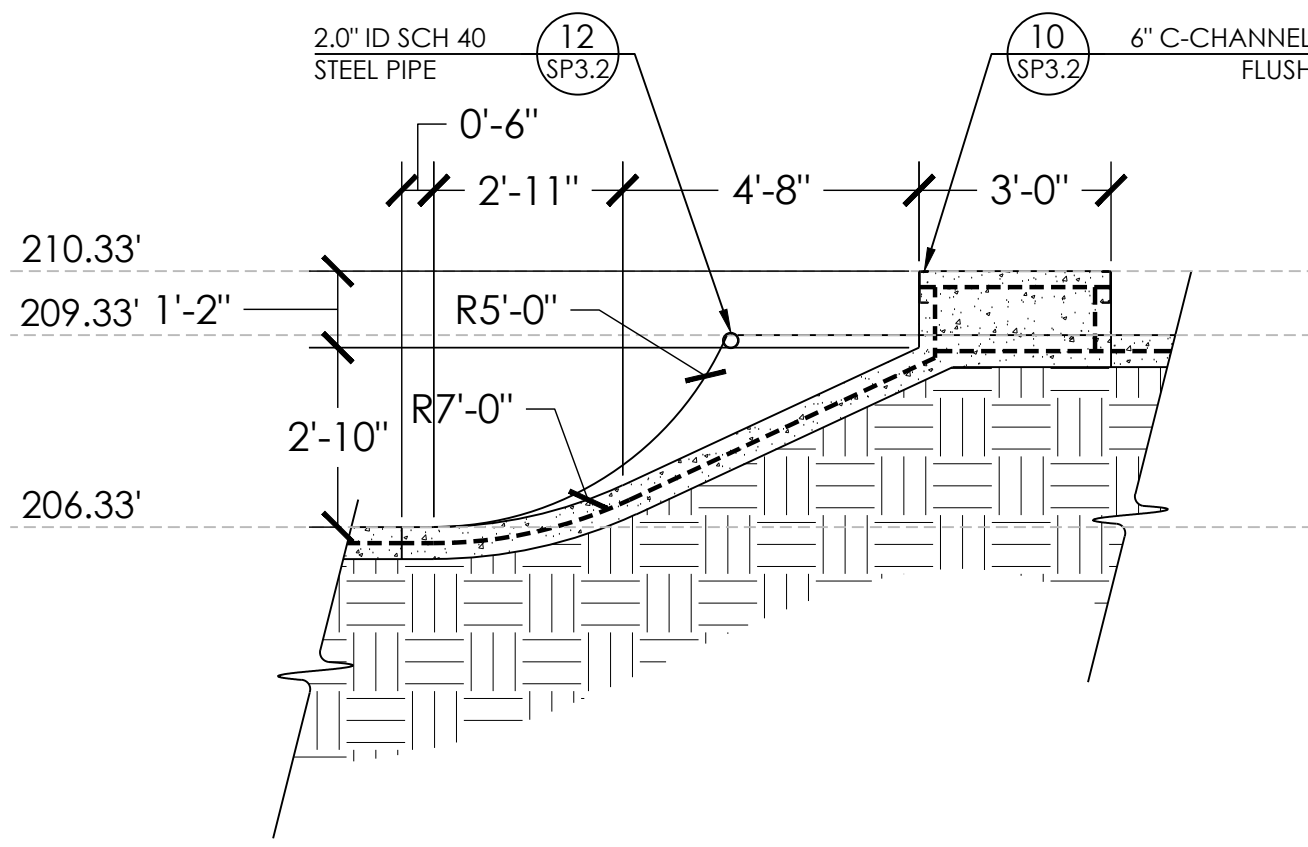
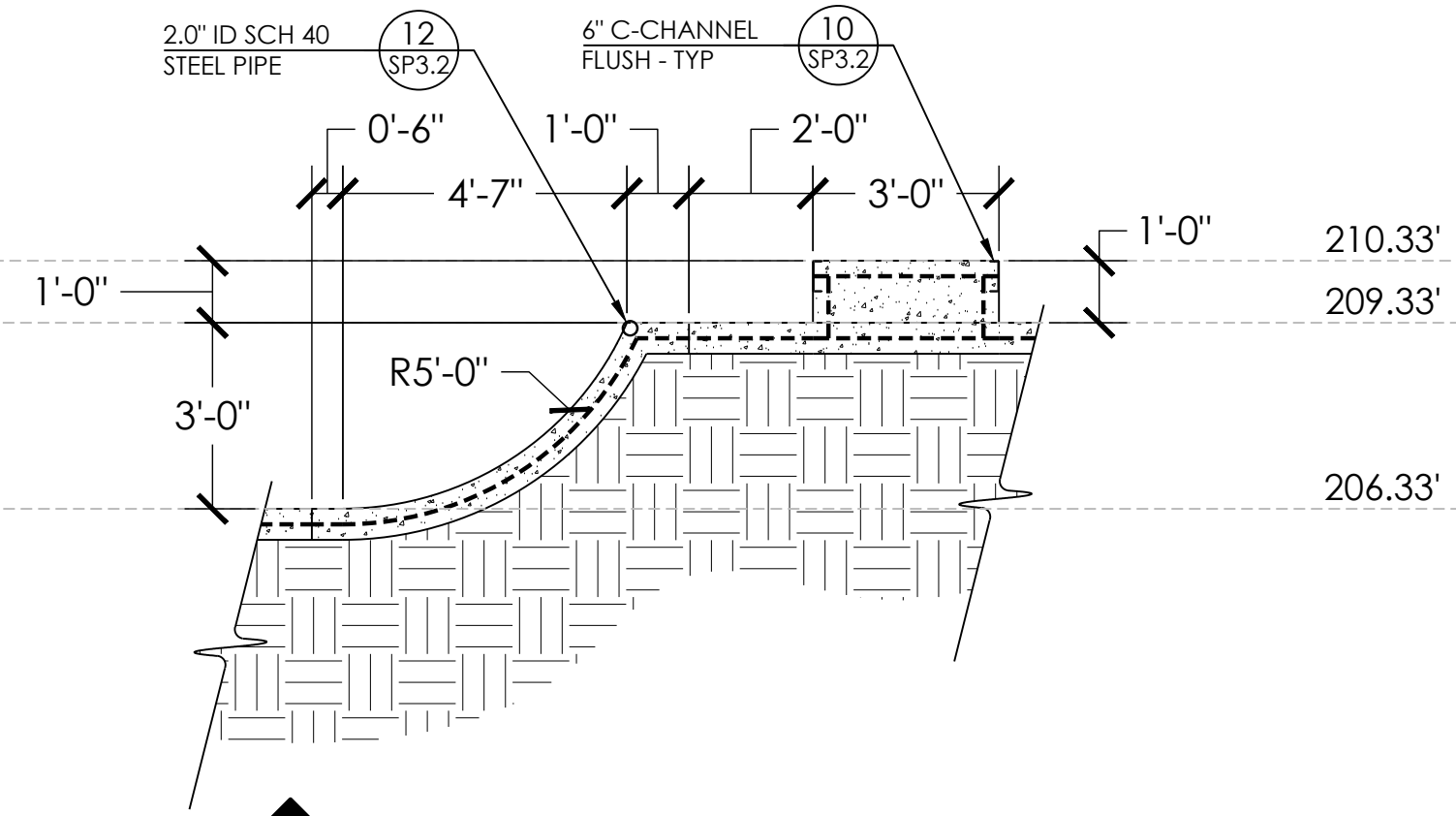
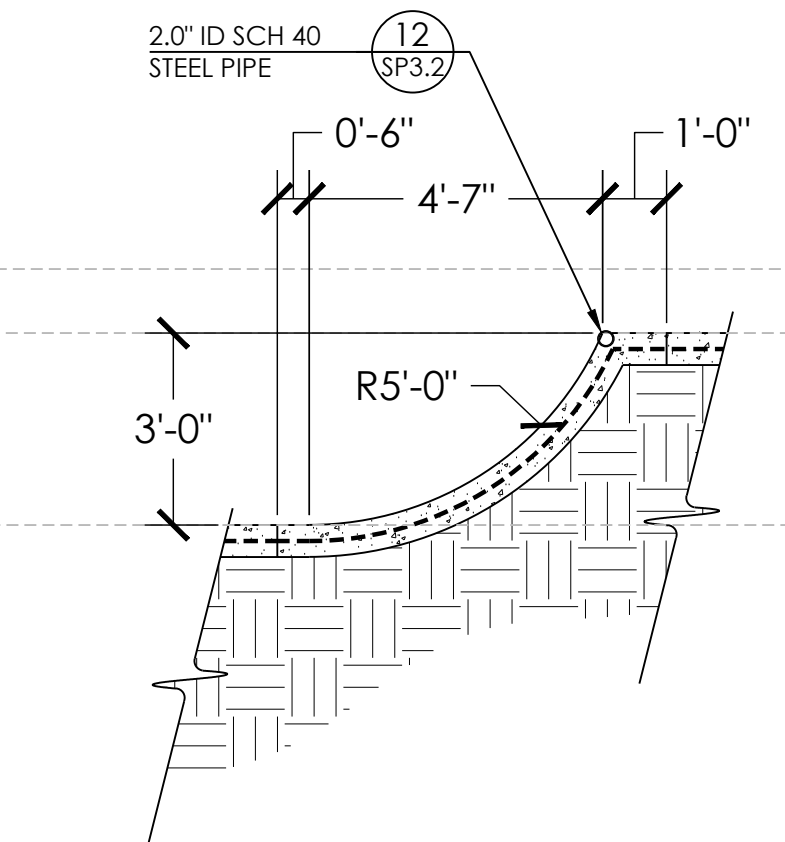
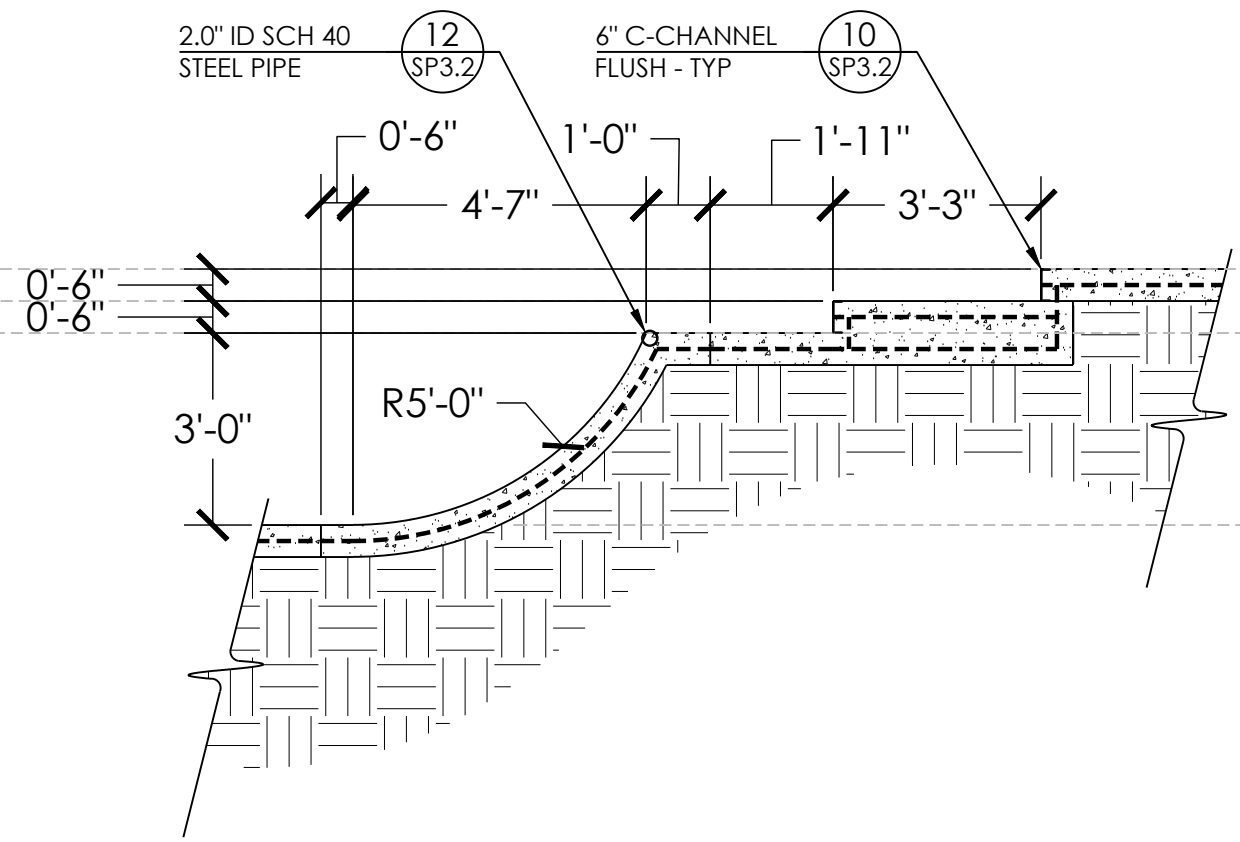
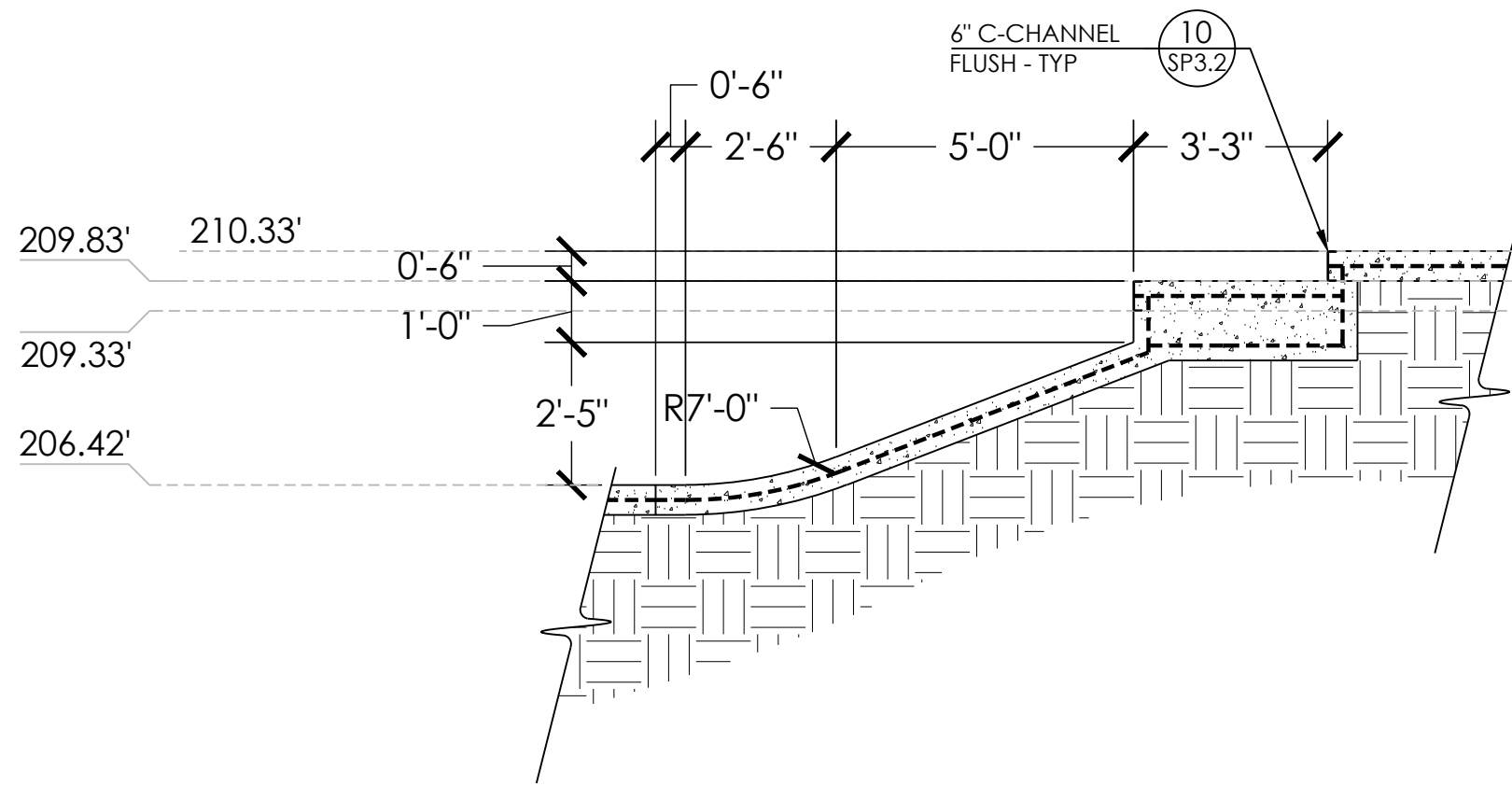
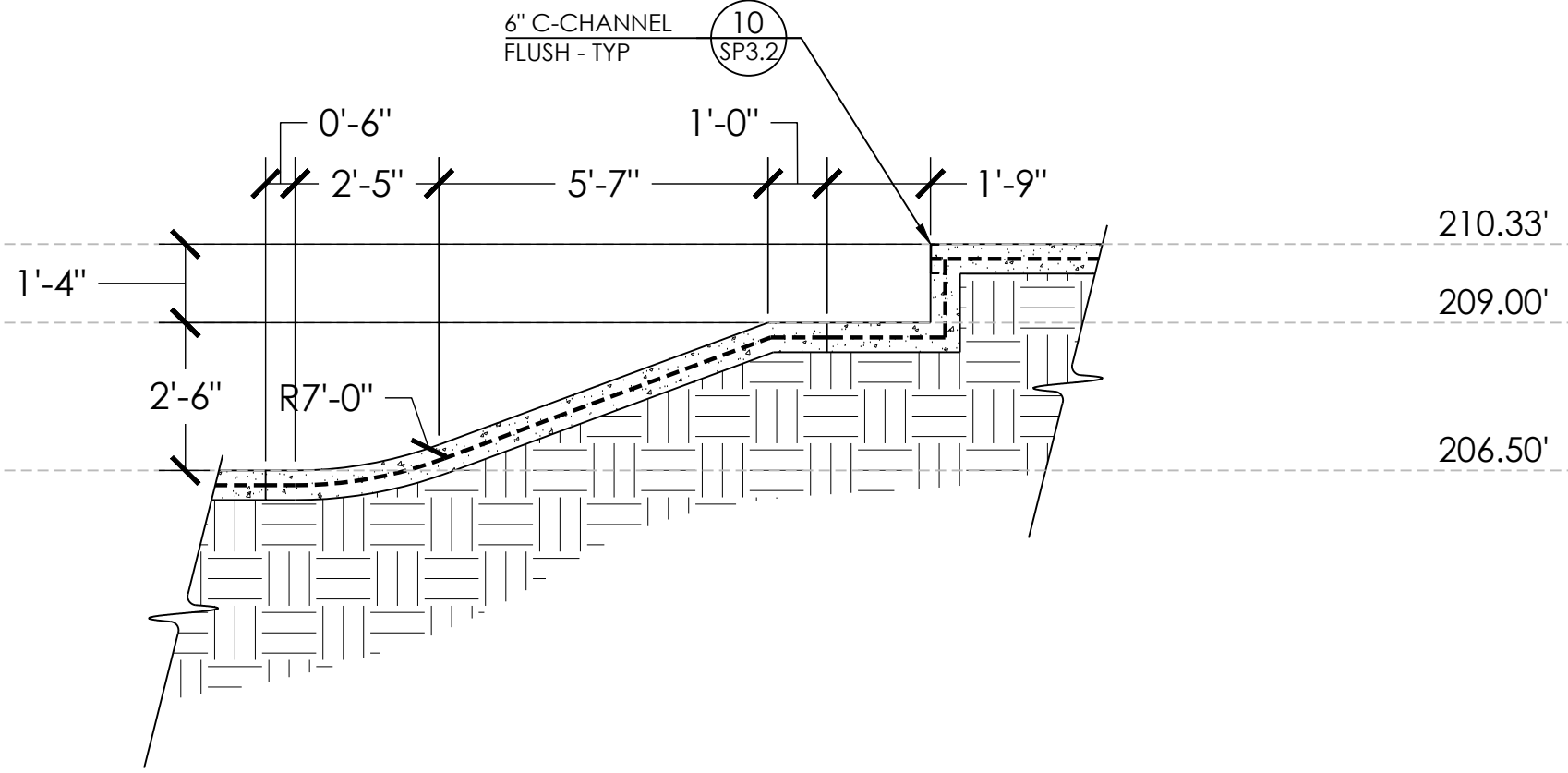
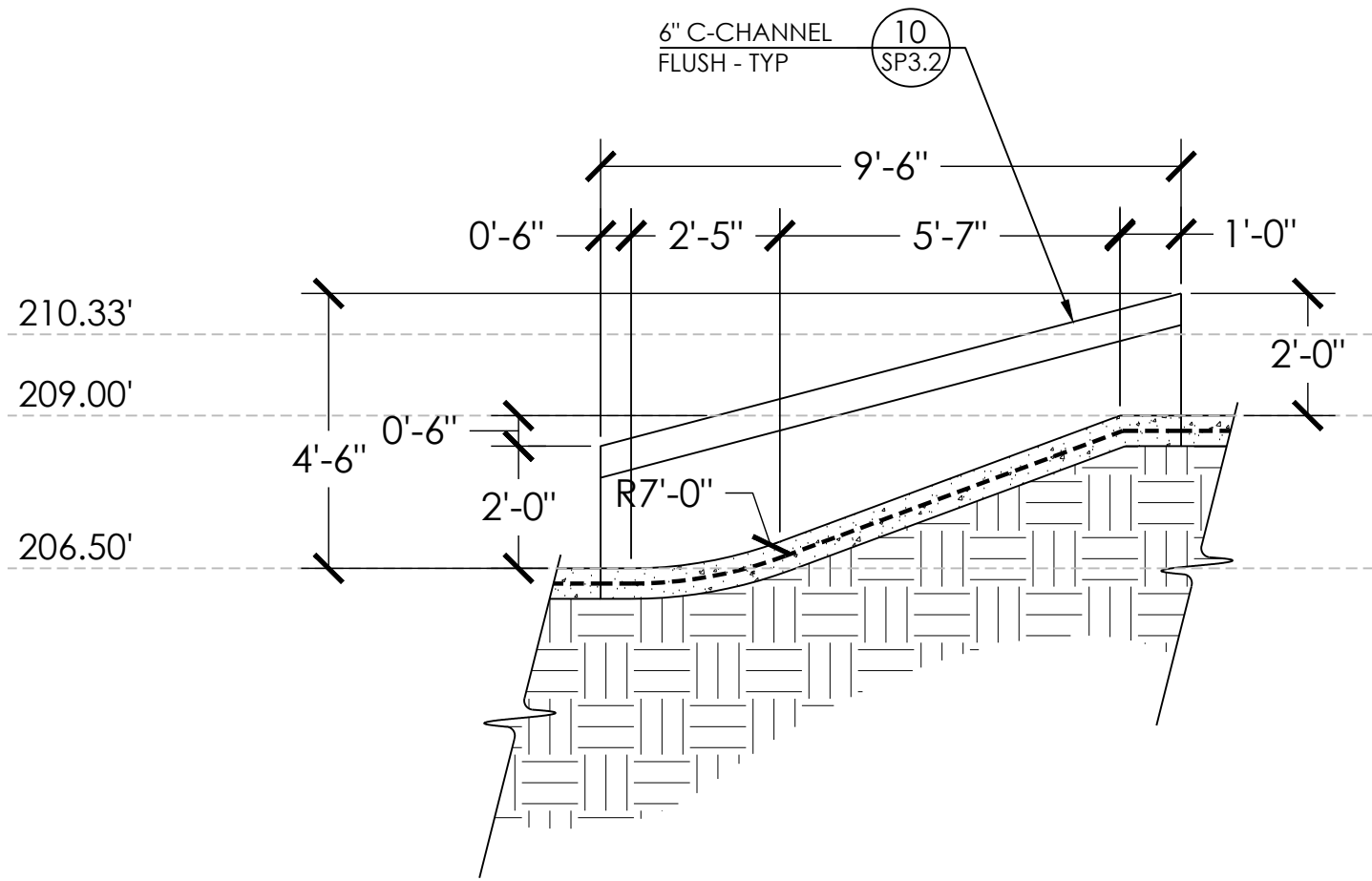
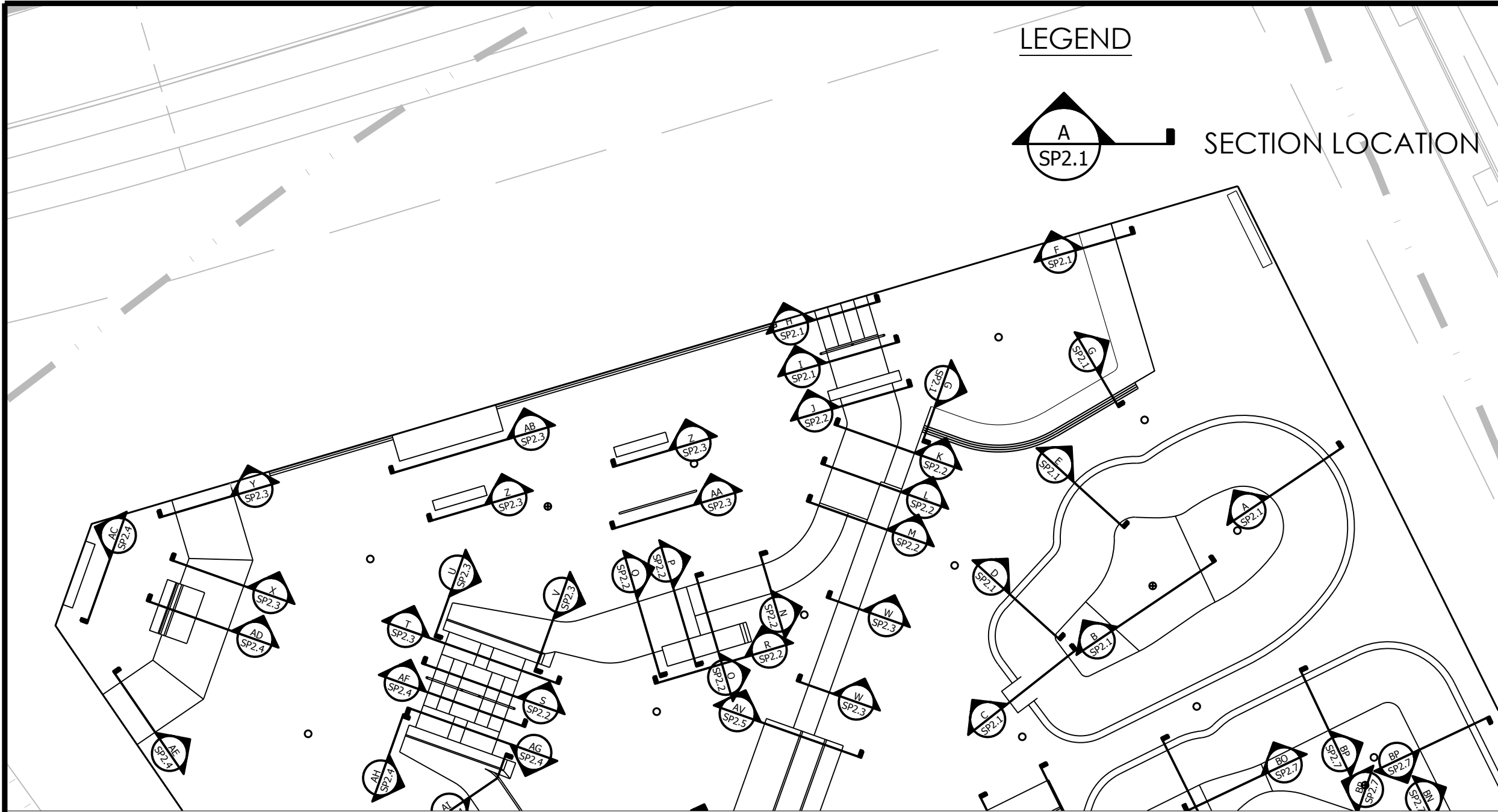
SHEET: SP2.1

DATE: 03.12.21

DRAWN BY: BAJ  
CHECKED BY: MBF

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SCALE: 1" = 3'

SECTIONS AND KEY

PROJECT: READING SKATEPARK  
LOCATION: READING, PA

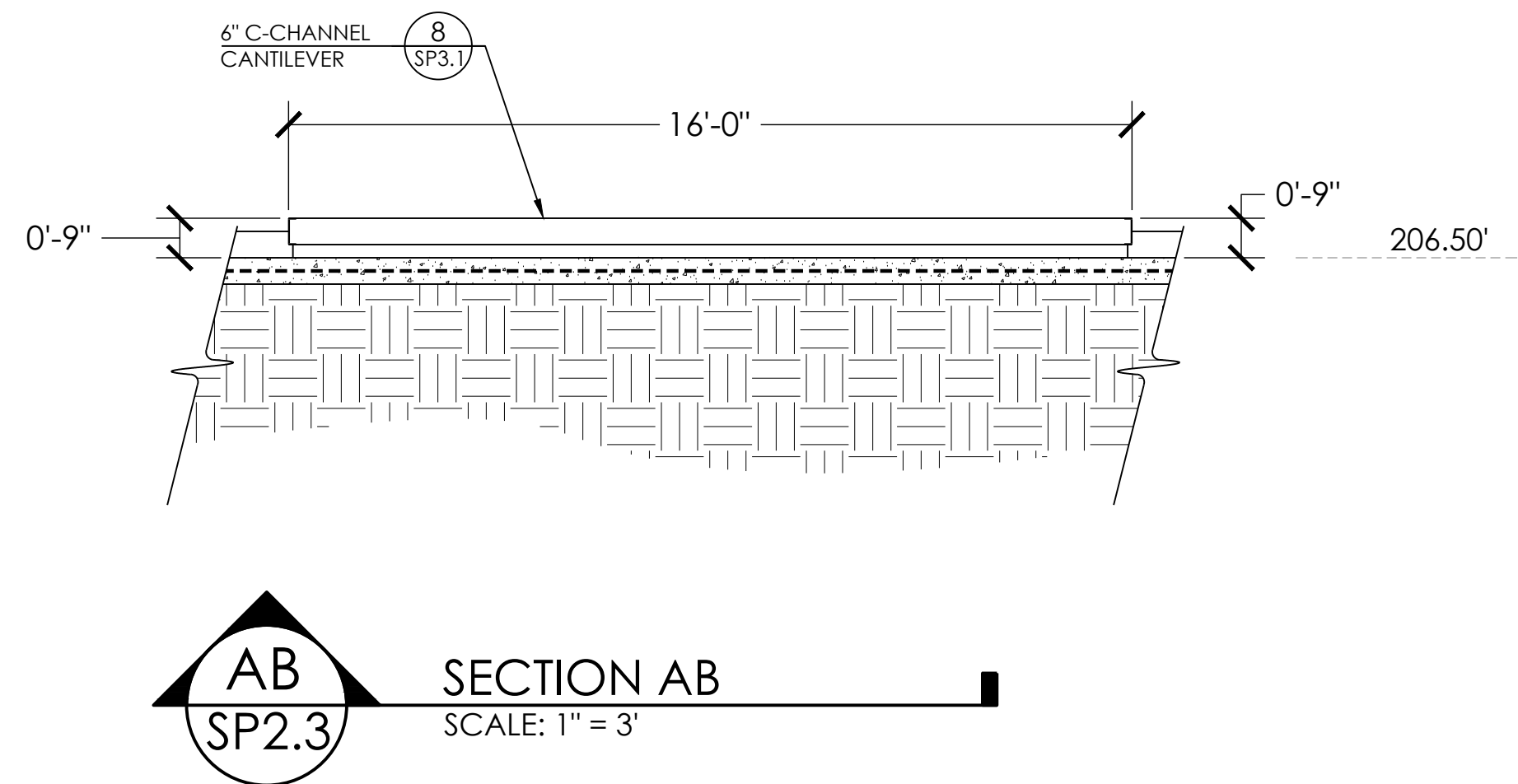
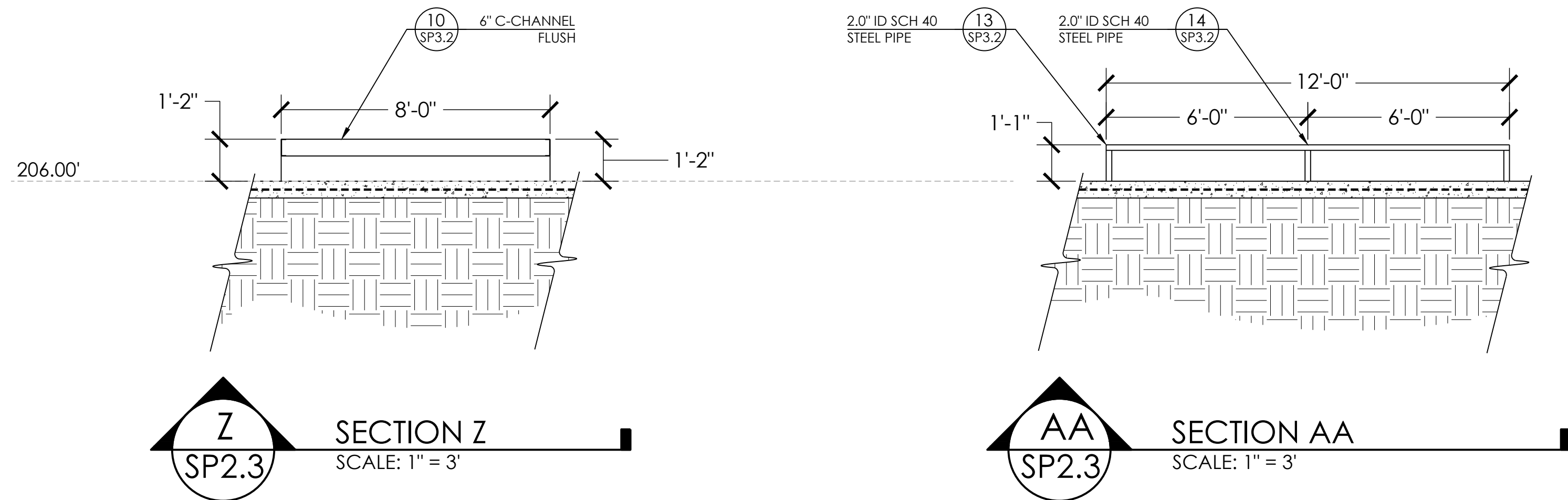
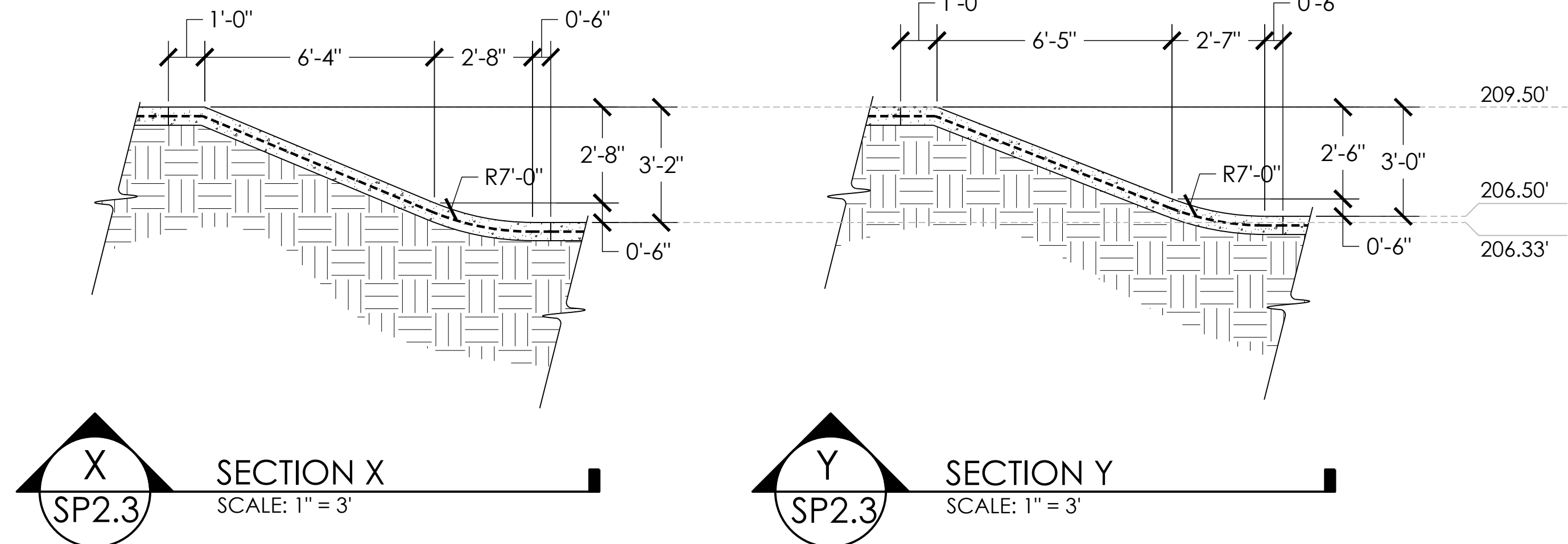
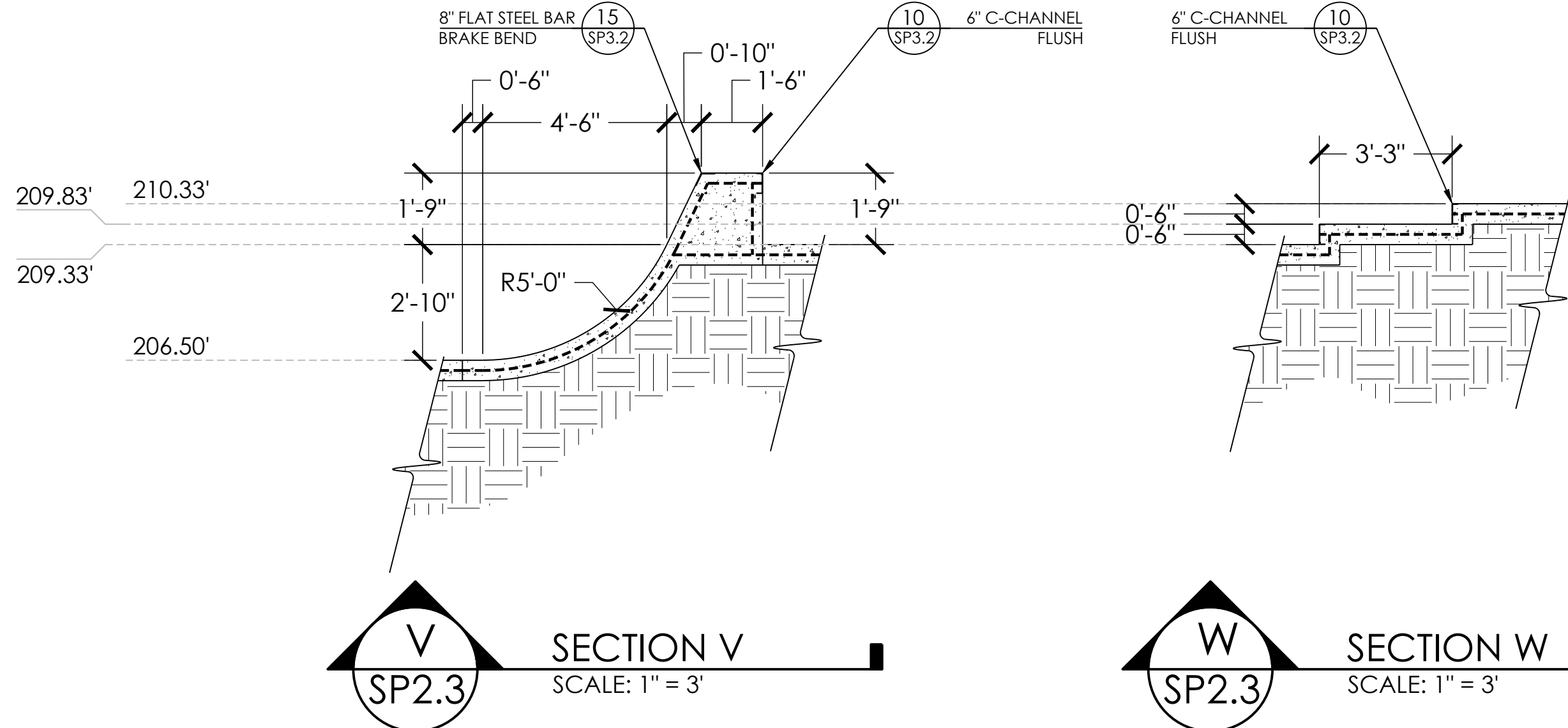
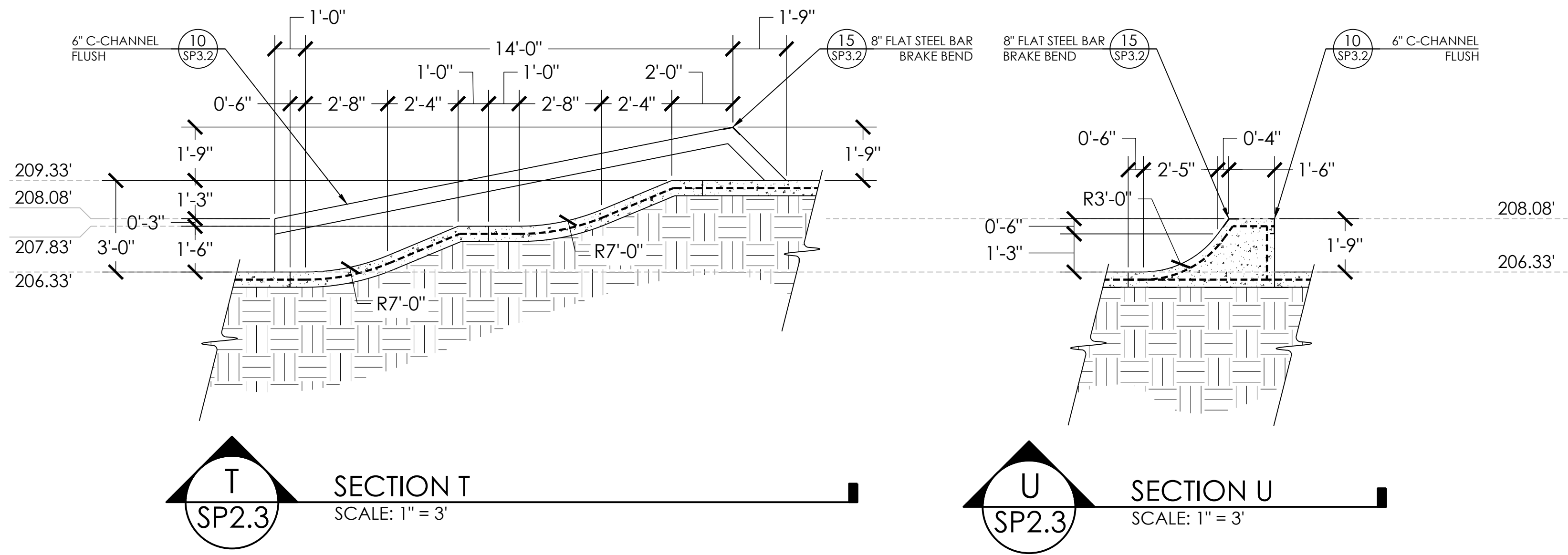
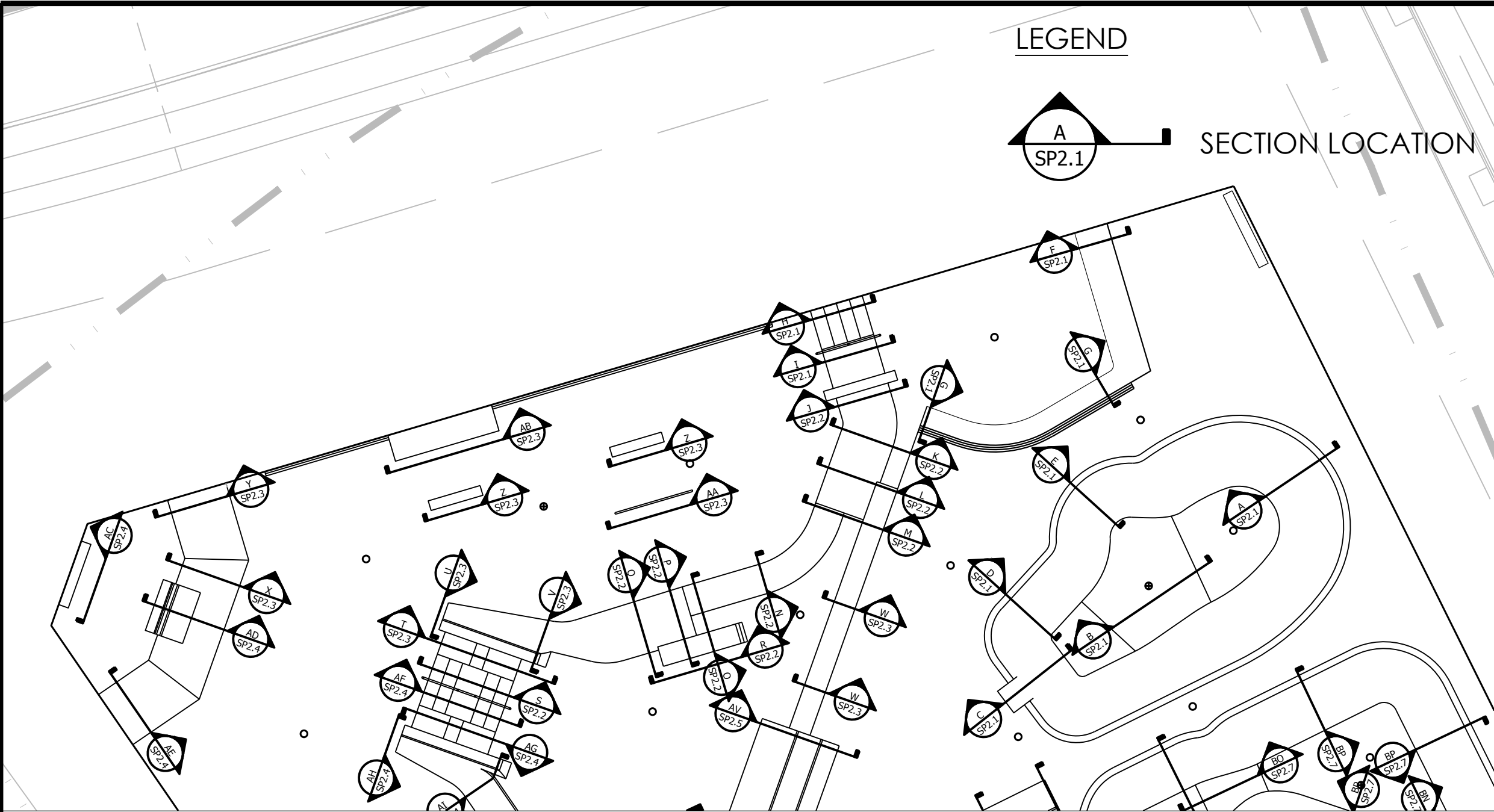
SHEET:  
**SP2.2**

DATE: 03.12.21

DRAWN BY: BAJ  
CHECKED BY: MBF

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**READING SKATEPARK**

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SCALE:  
1" = 3'

SECTIONS AND KEY

PROJECT: READING SKATEPARK

LOCATION: READING, PA

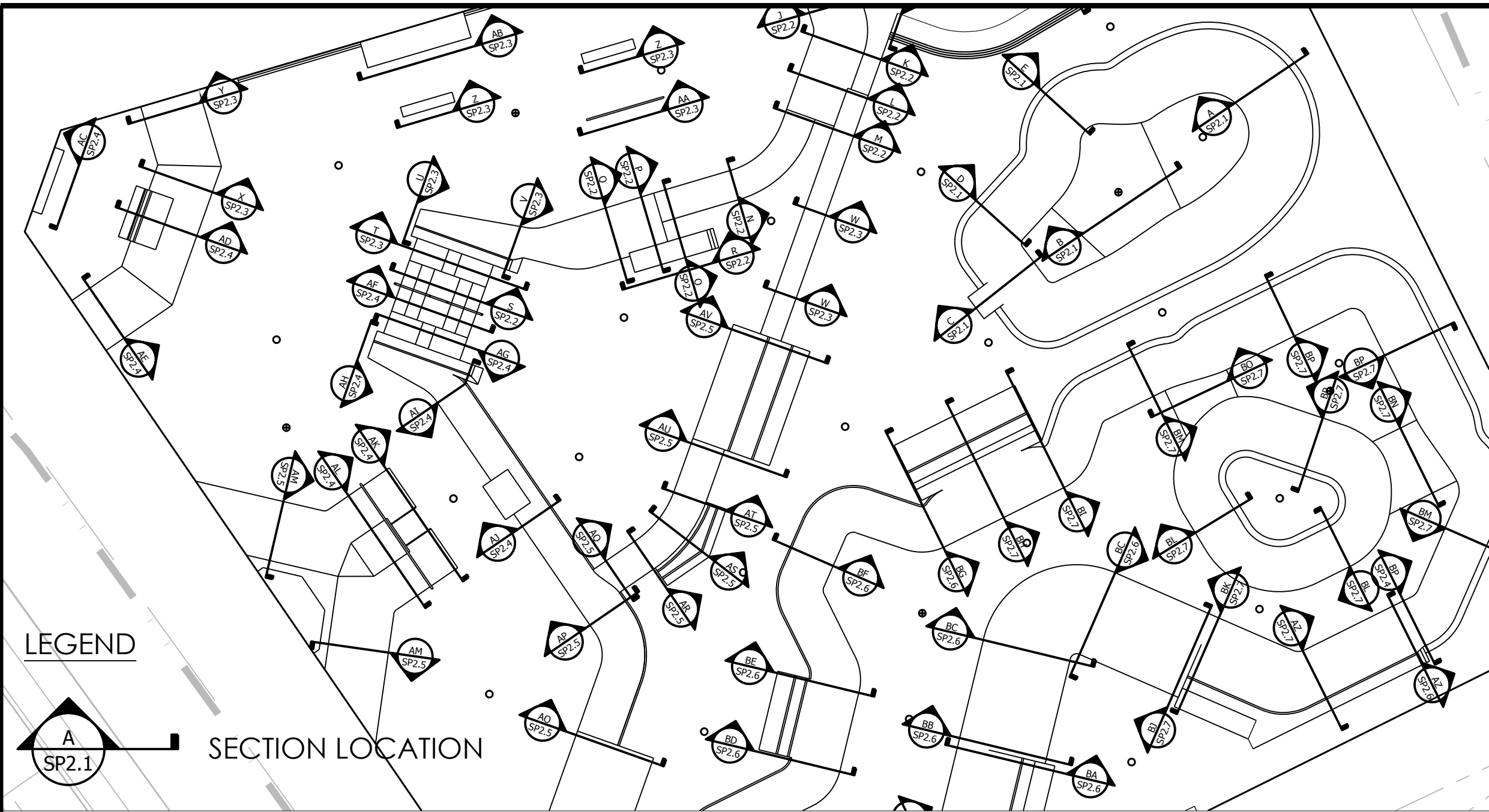
SHEET:  
**SP2.3**

DATE: 03.12.21

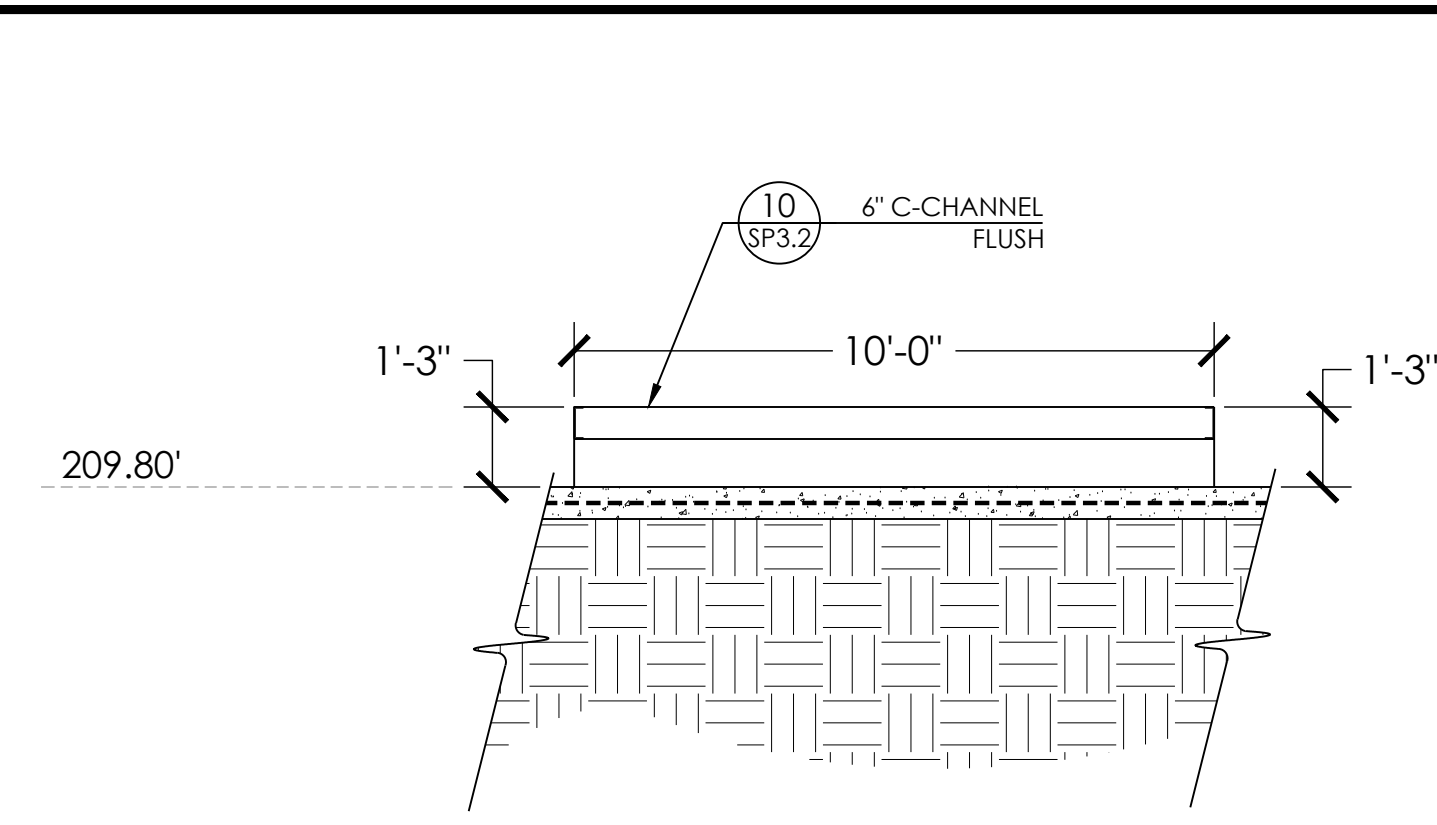
DRAWN BY: BAJ  
CHECKED BY: MBF

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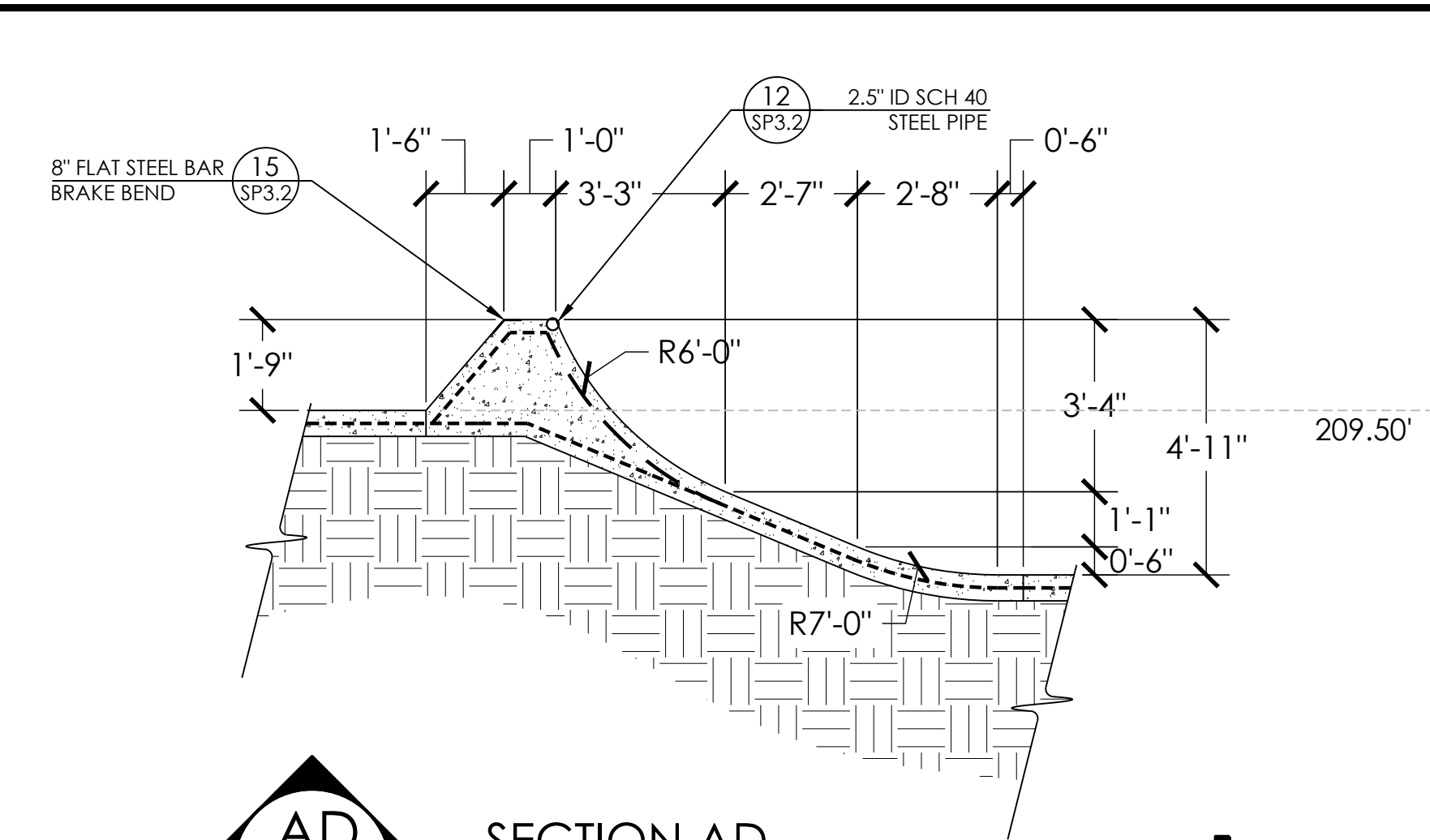




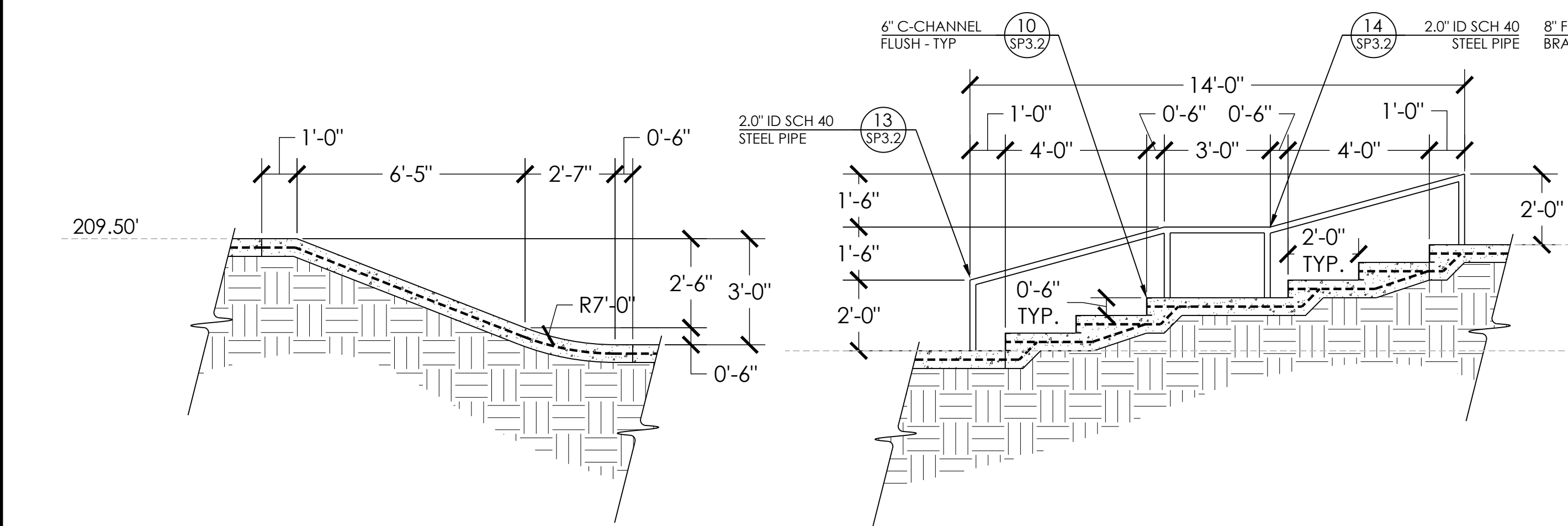
LEGEND  
SECTION LOCATION



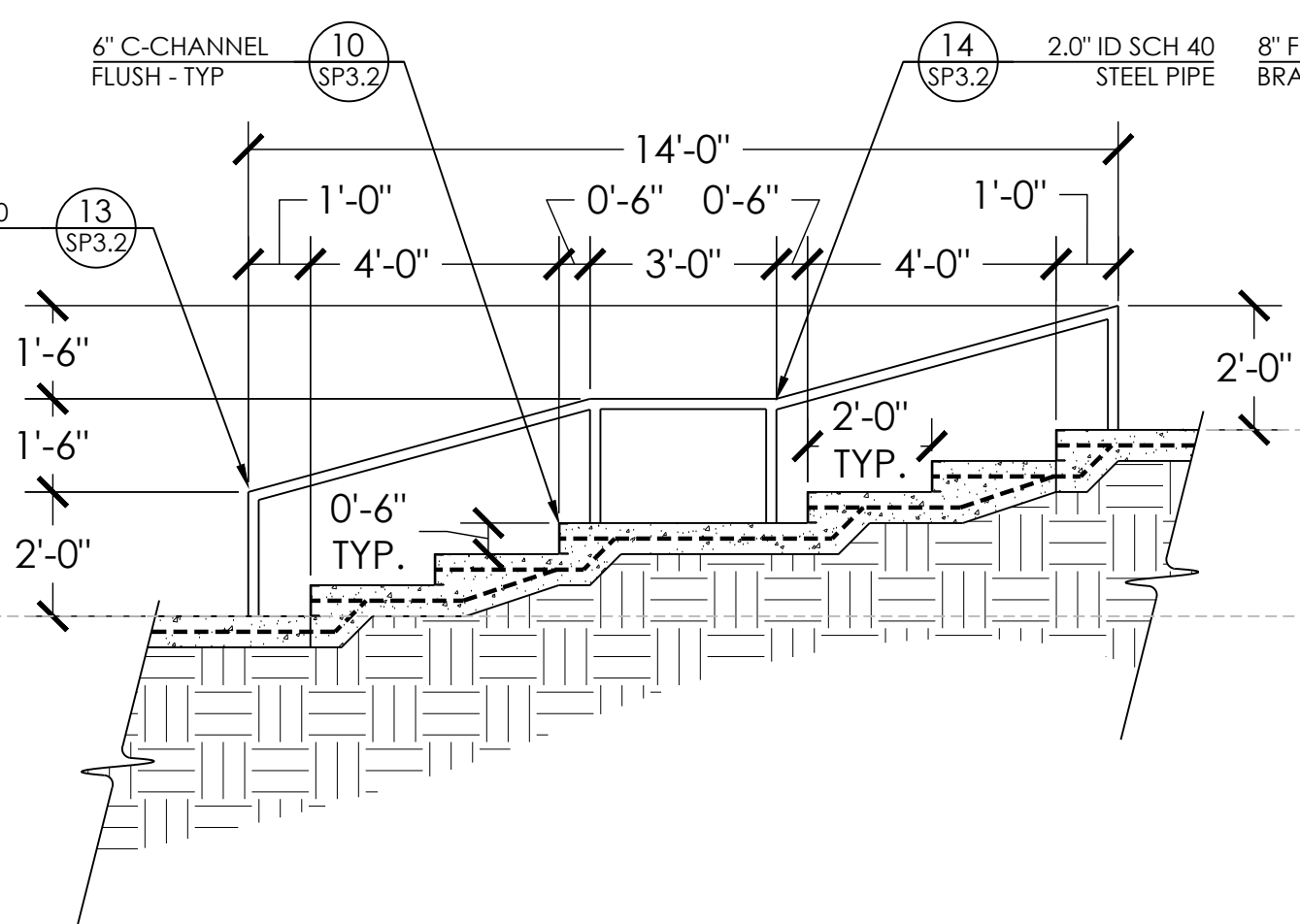
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SP2.4  
SECTION AC  
SCALE: 1" = 3'



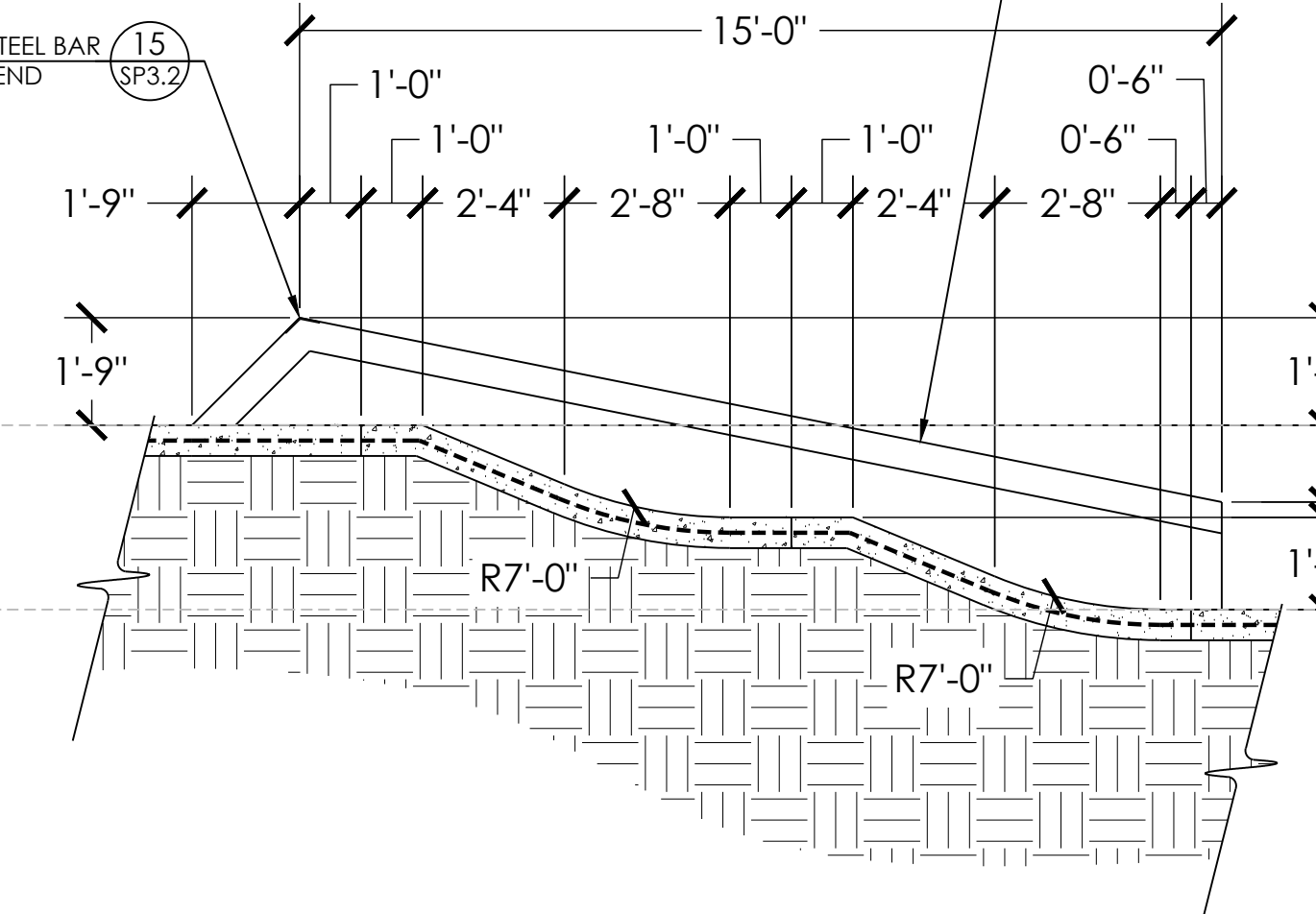
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SECTION AD  
SCALE: 1" = 3'



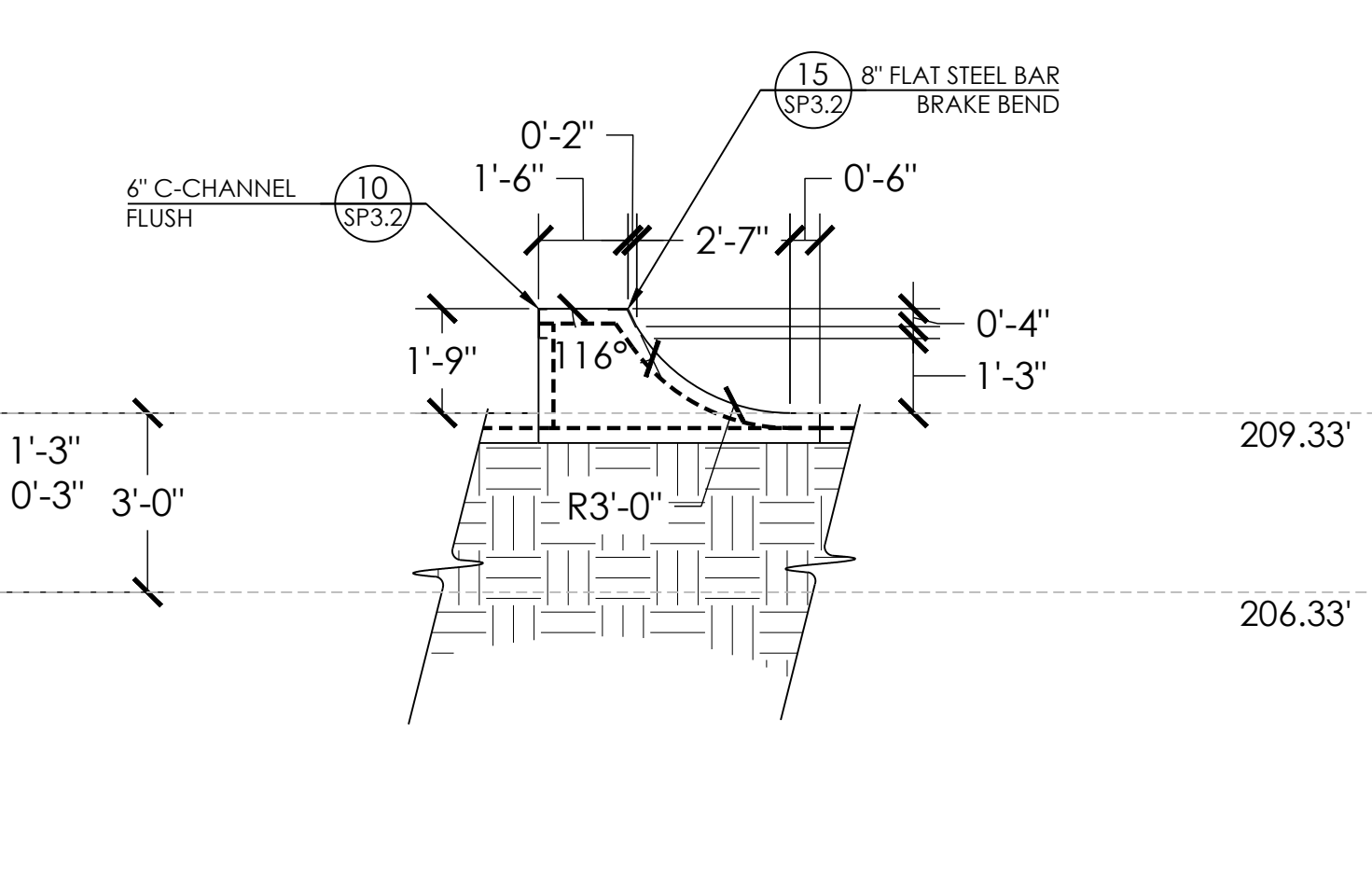
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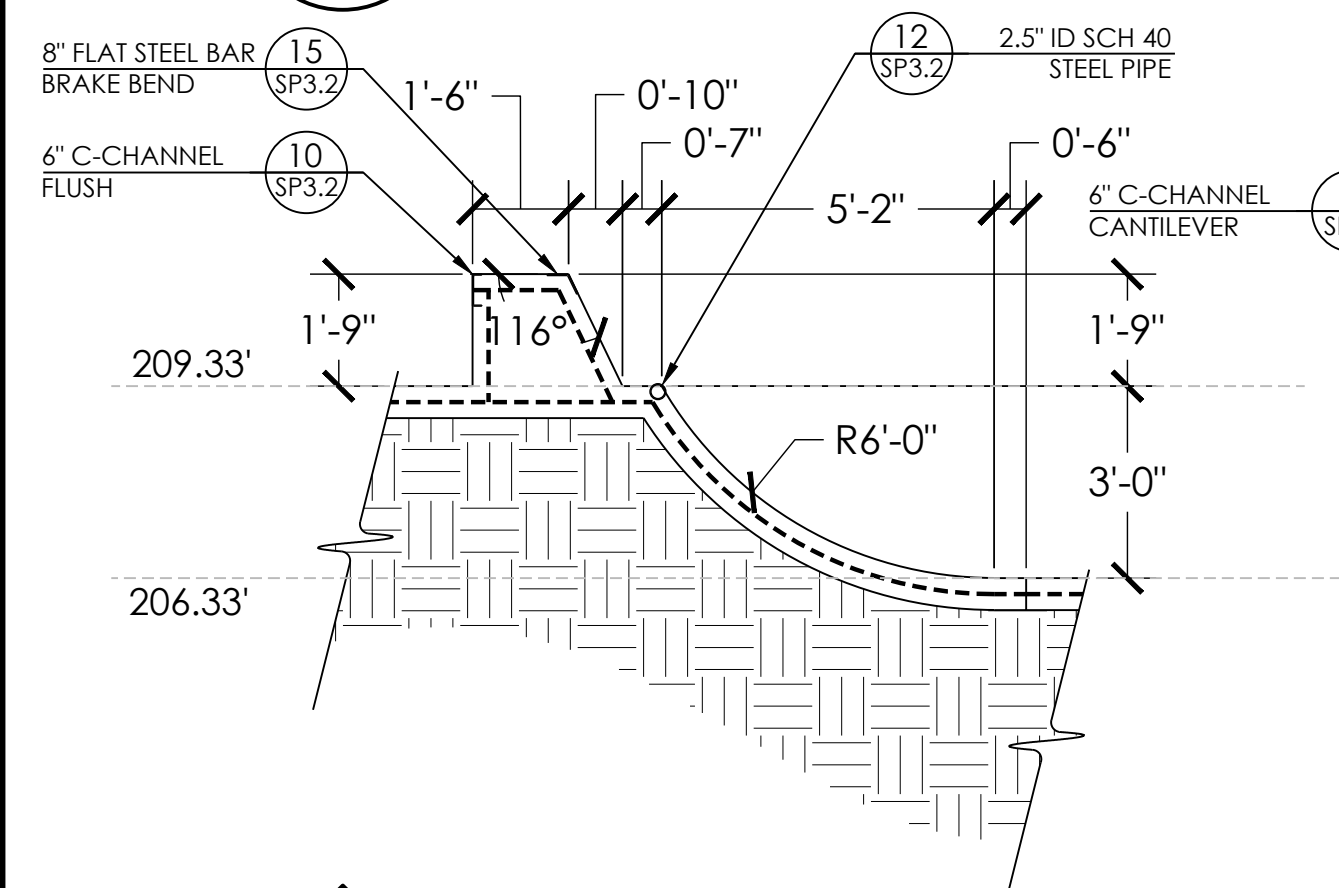
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SCALE: 1" = 3'



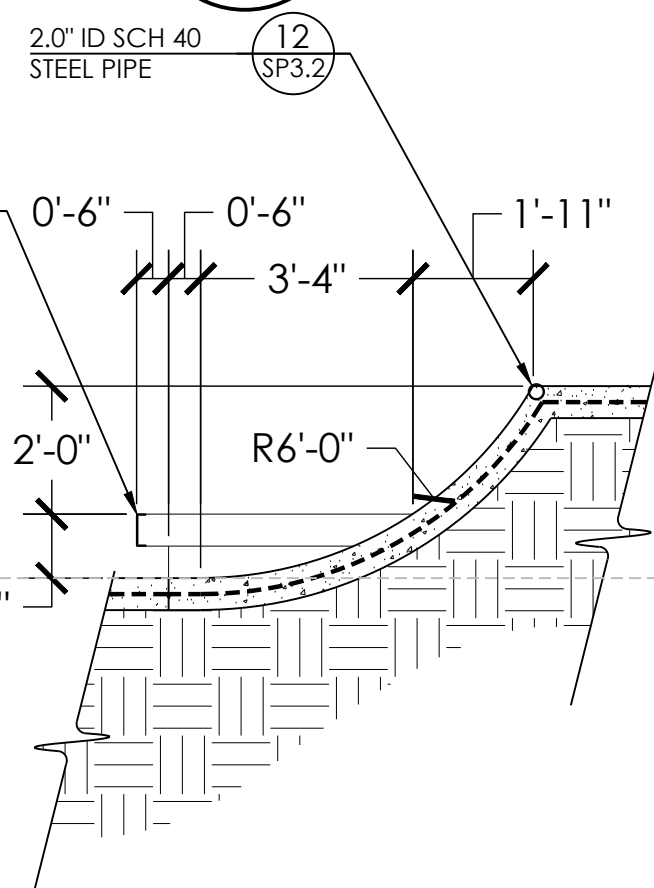
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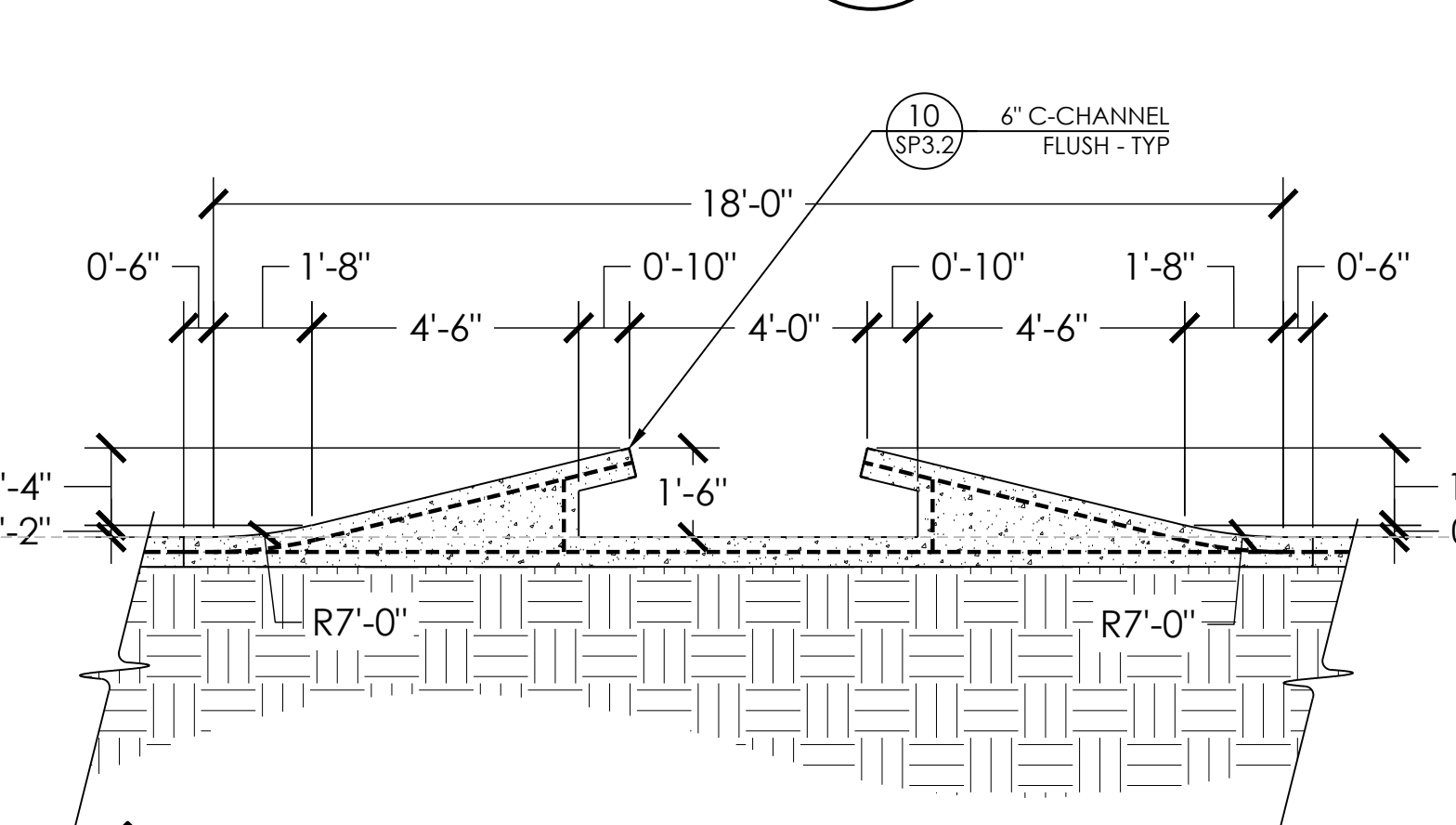
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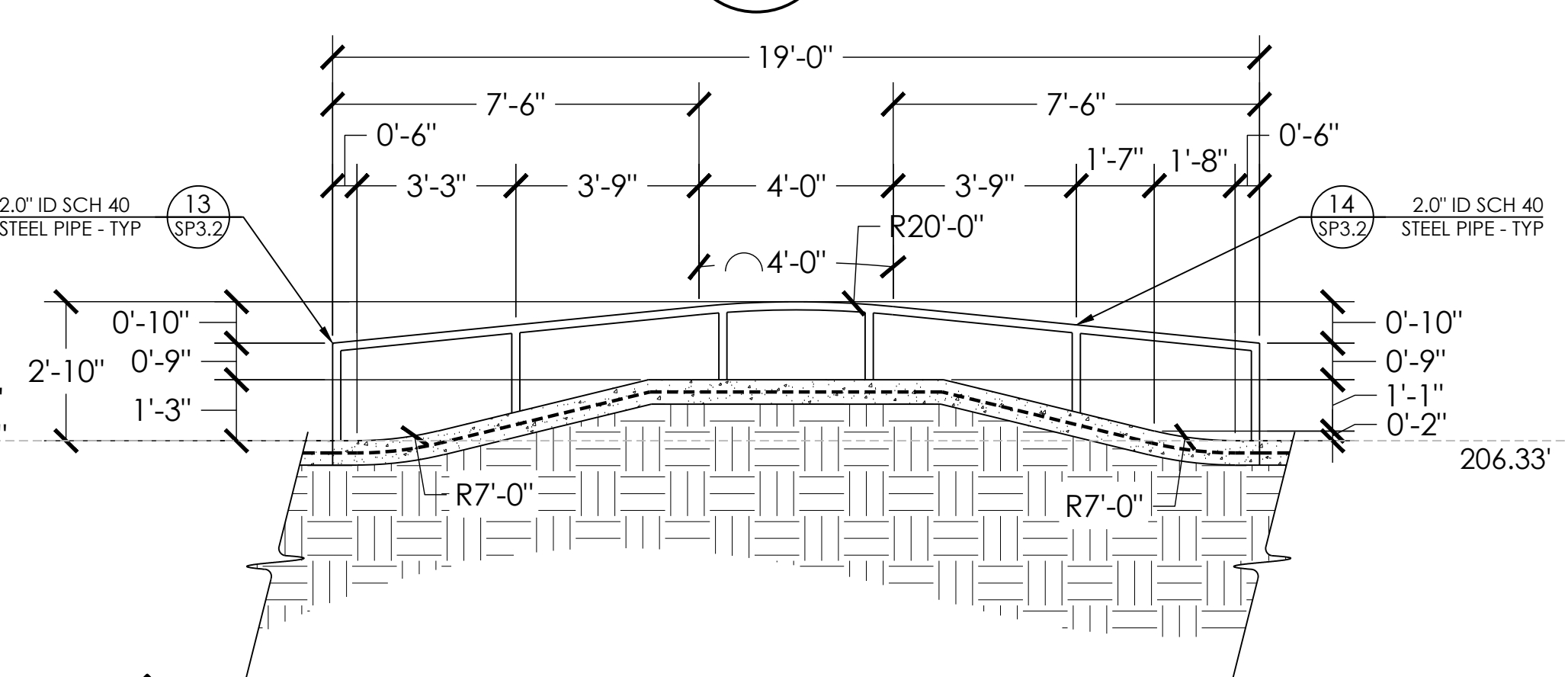
AI  
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SECTION AI  
SCALE: 1" = 3'



AJ  
SP2.4  
SECTION AJ  
SCALE: 1" = 3'



AK  
SP2.4  
SECTION AK  
SCALE: 1" = 3'



AL  
SP2.4  
SECTION AL  
SCALE: 1" = 3'

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REGISTERED PROFESSIONAL ENGINEER  
NICHOLAS A. SZEREDAI  
PE008674  
P. J. V. A. N. A.

SCALE: 1" = 3'

SECTIONS AND KEY

PROJECT: READING SKATEPARK  
LOCATION: READING, PA

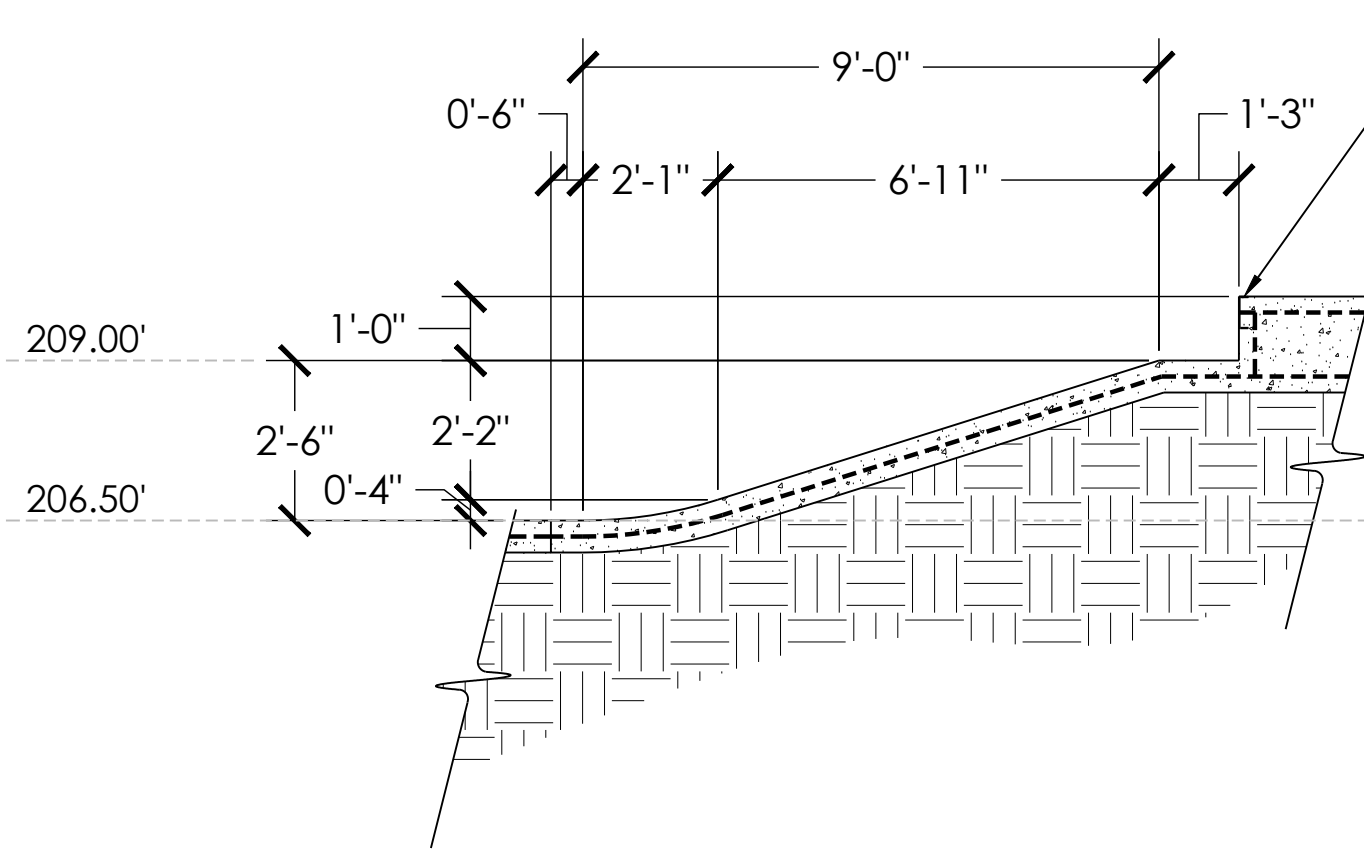
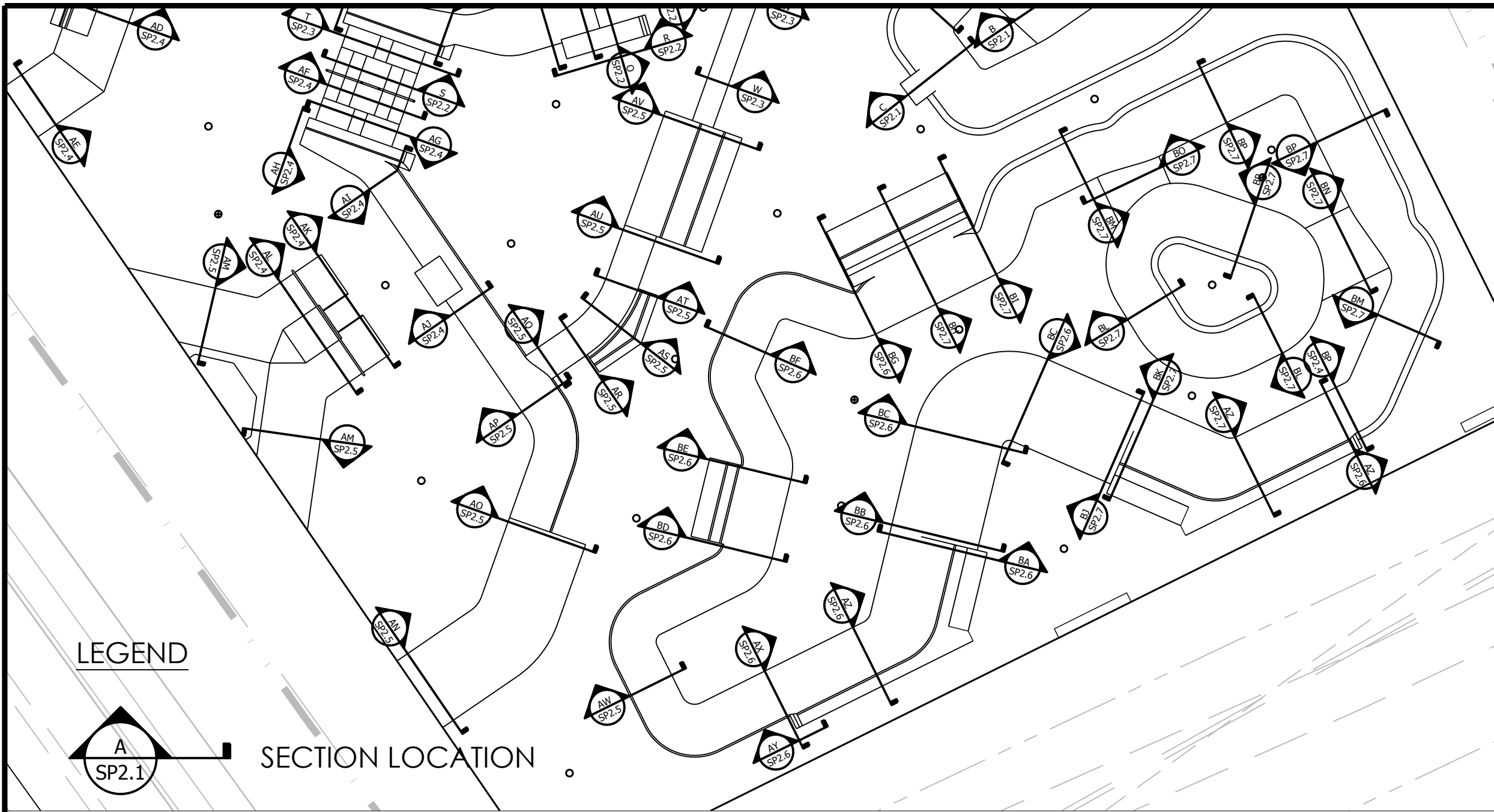
SHEET:  
SP2.4

DATE: 03.12.21

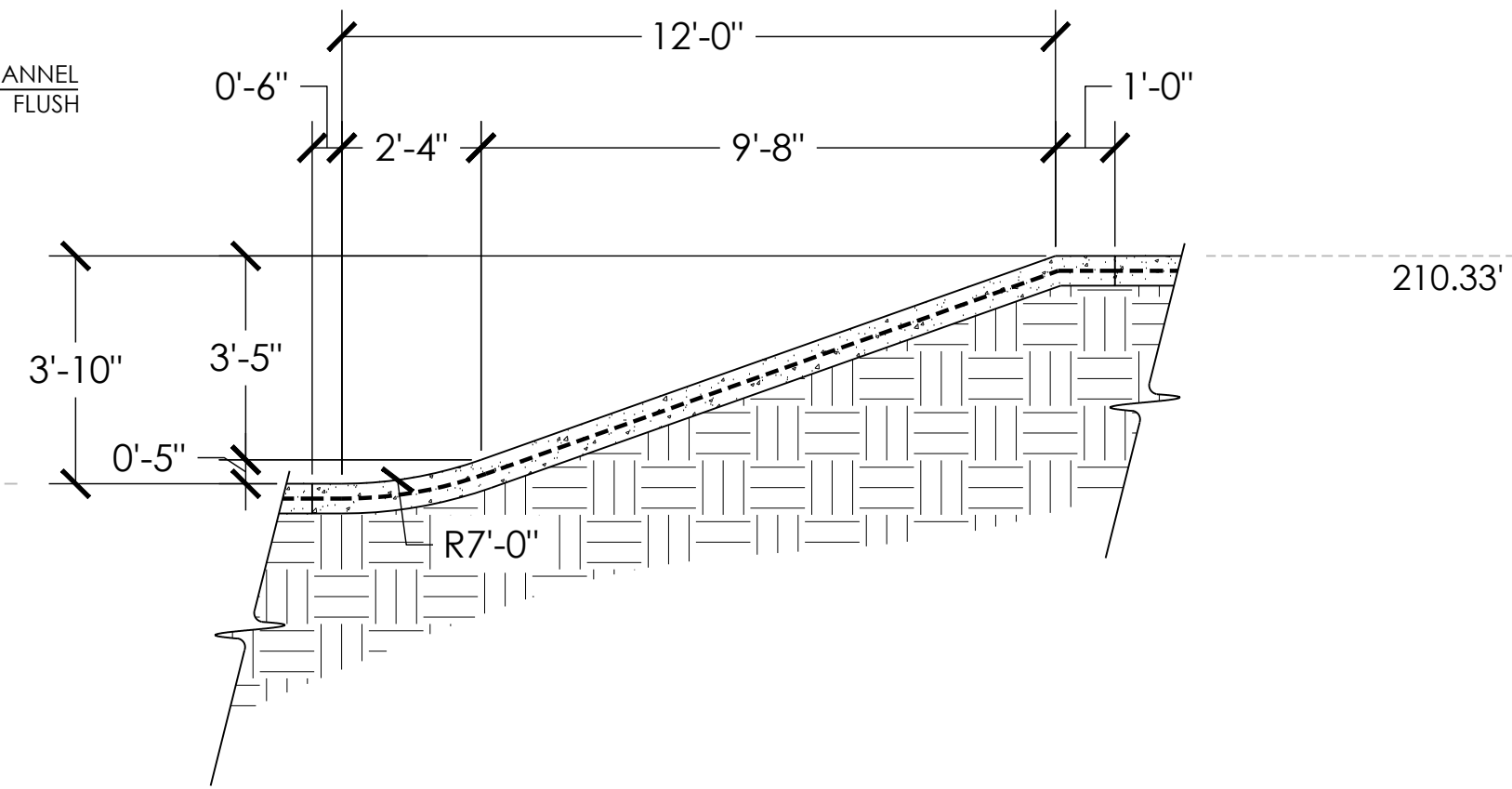
DRAWN BY: BAJ  
CHECKED BY: MBF

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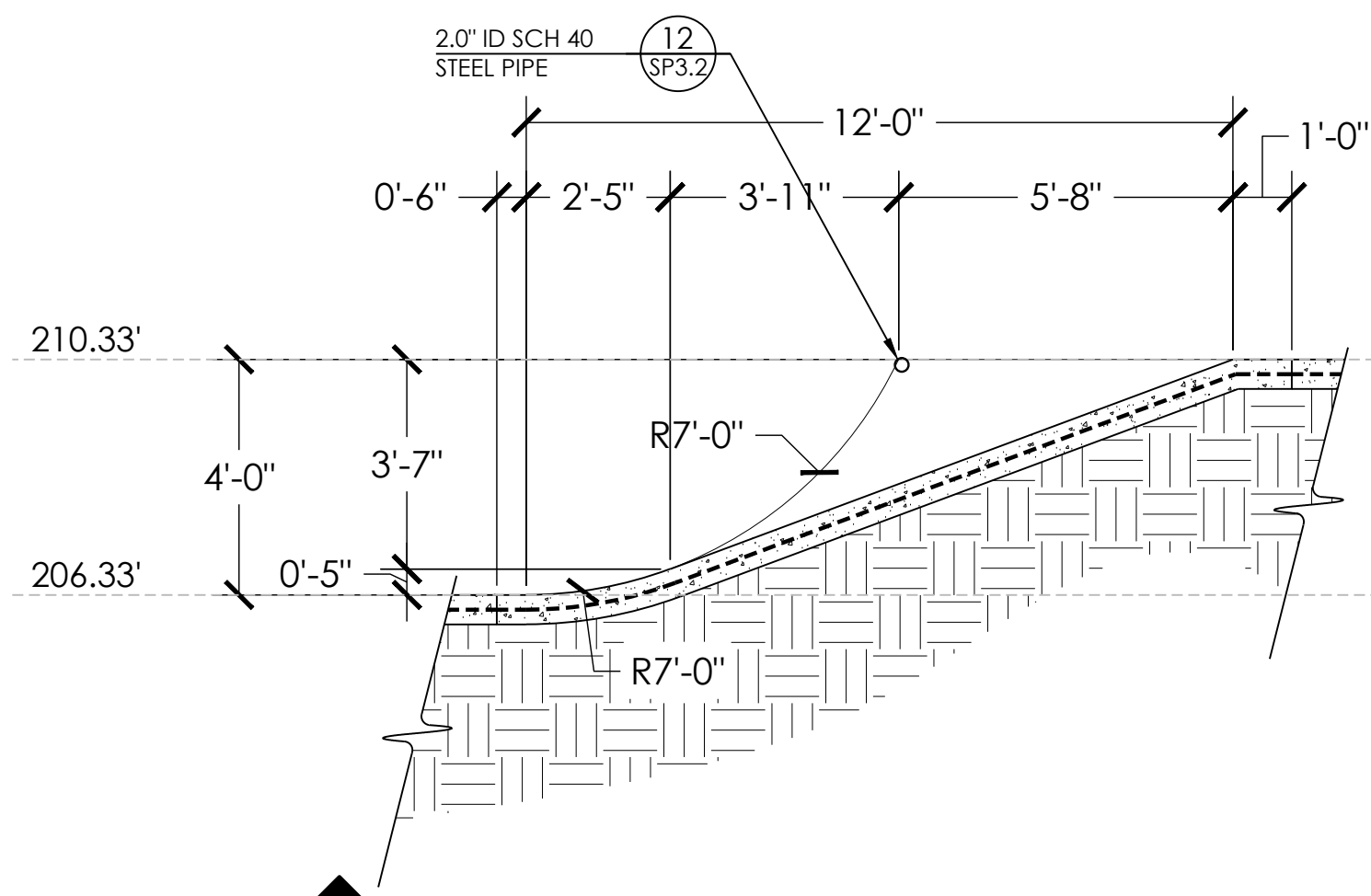




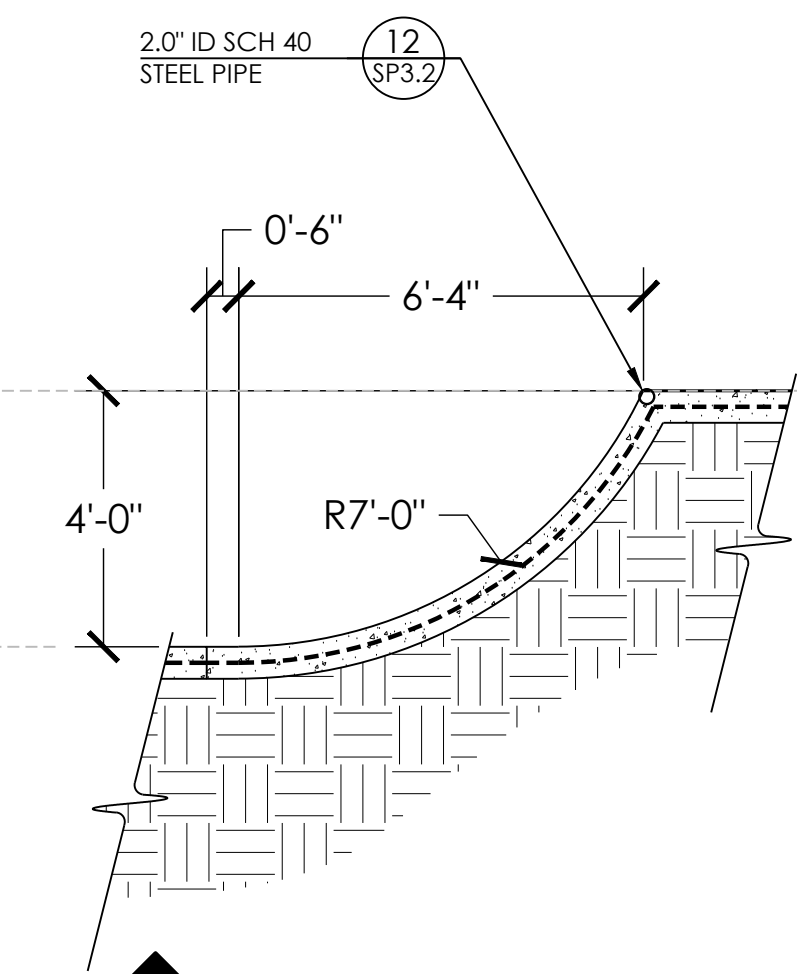
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SCALE: 1" = 3'



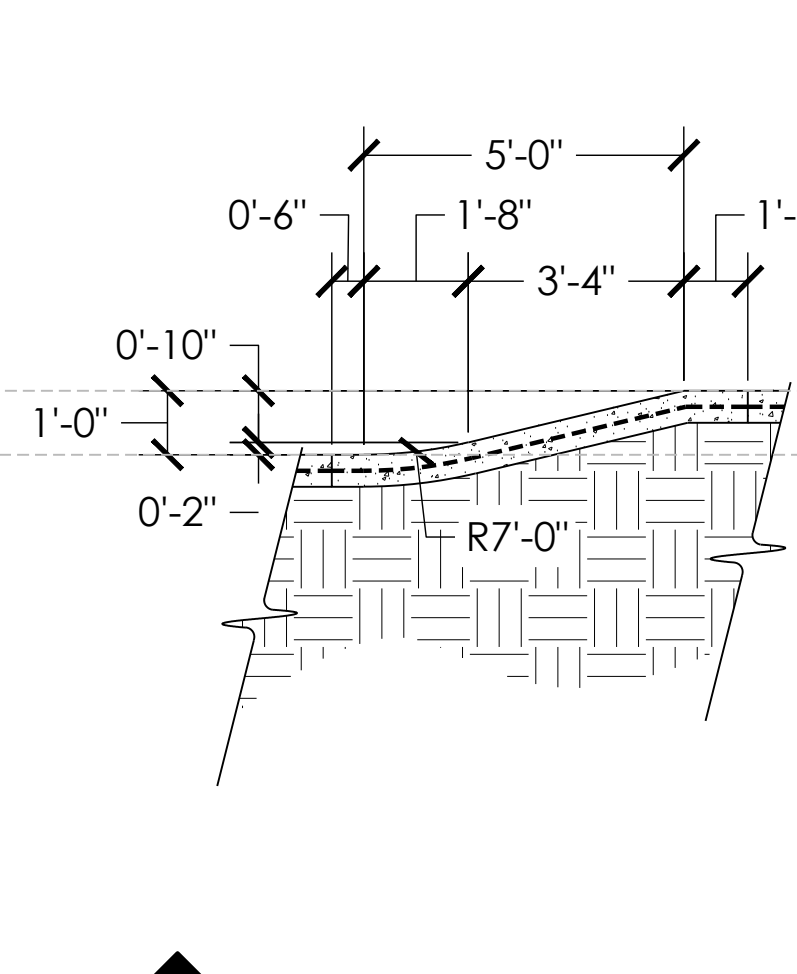
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SECTION AN  
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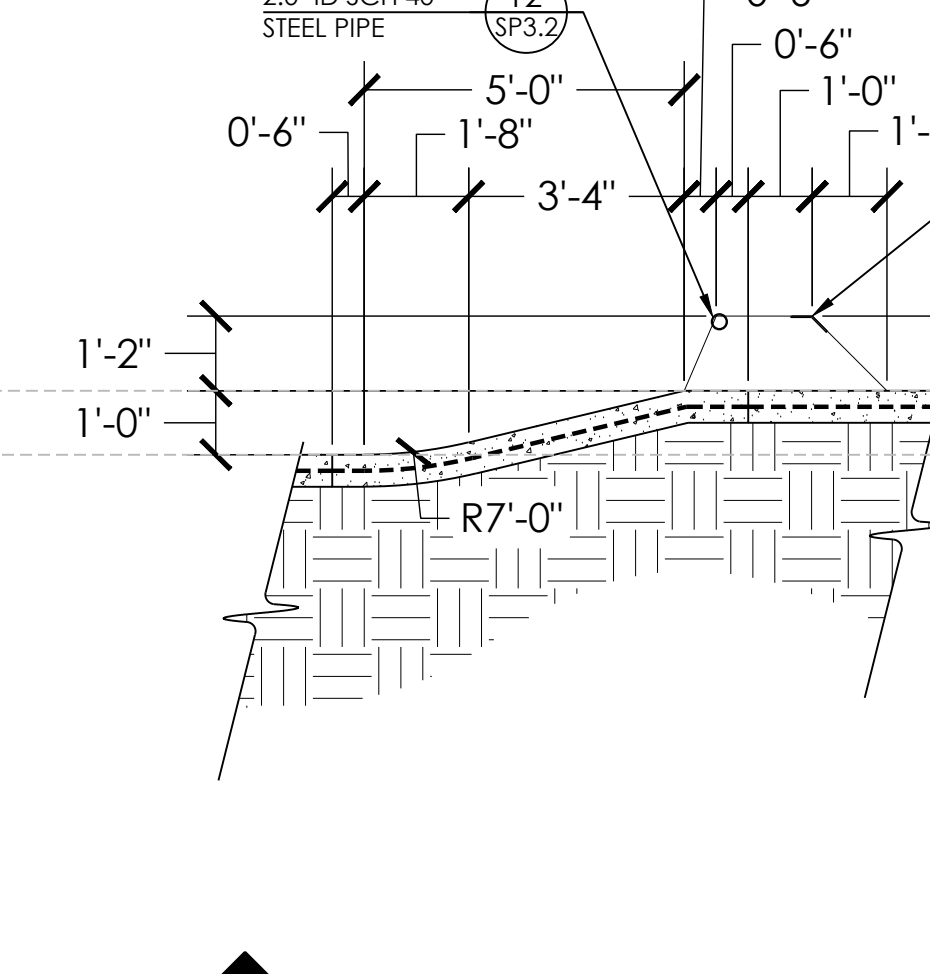
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SECTION AO  
SCALE: 1" = 3'



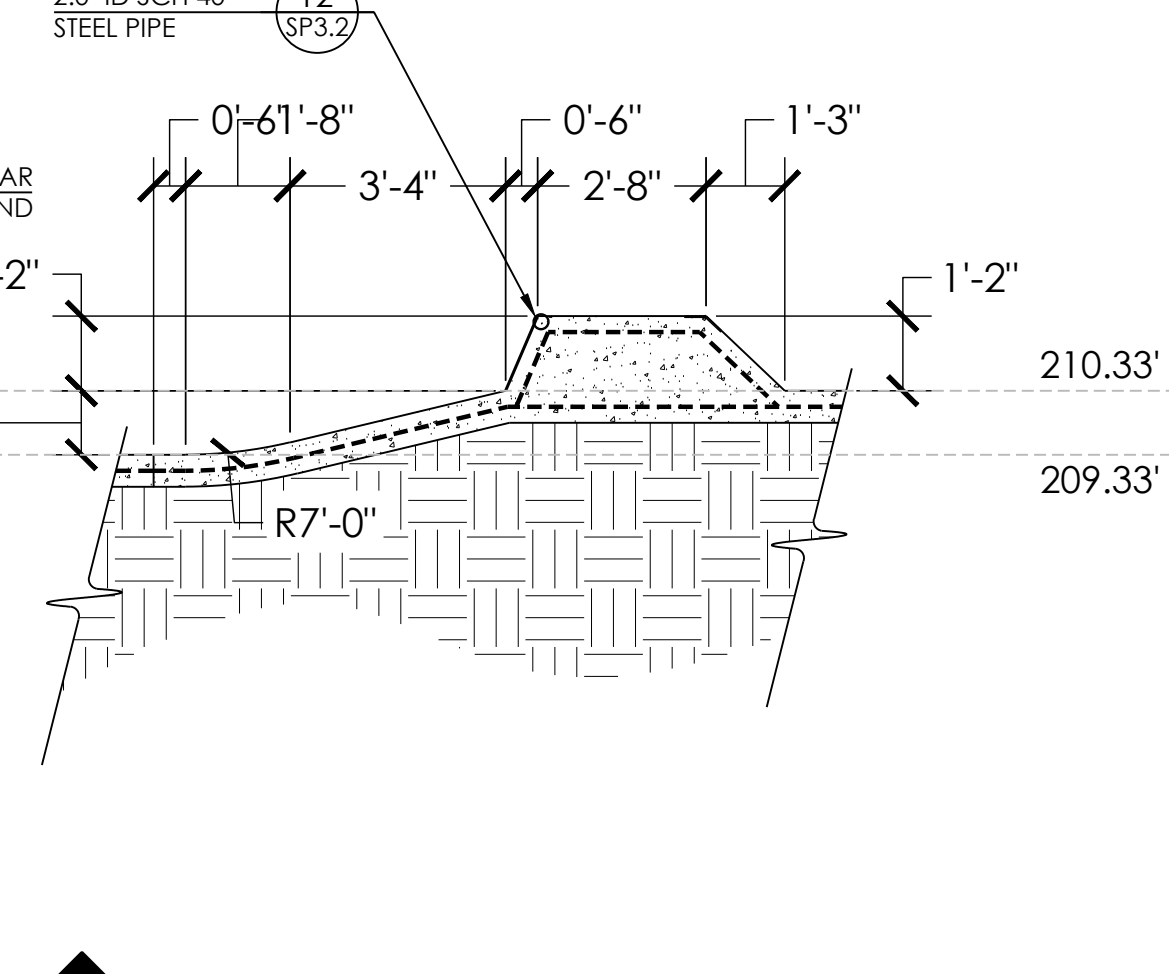
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SCALE: 1" = 3'



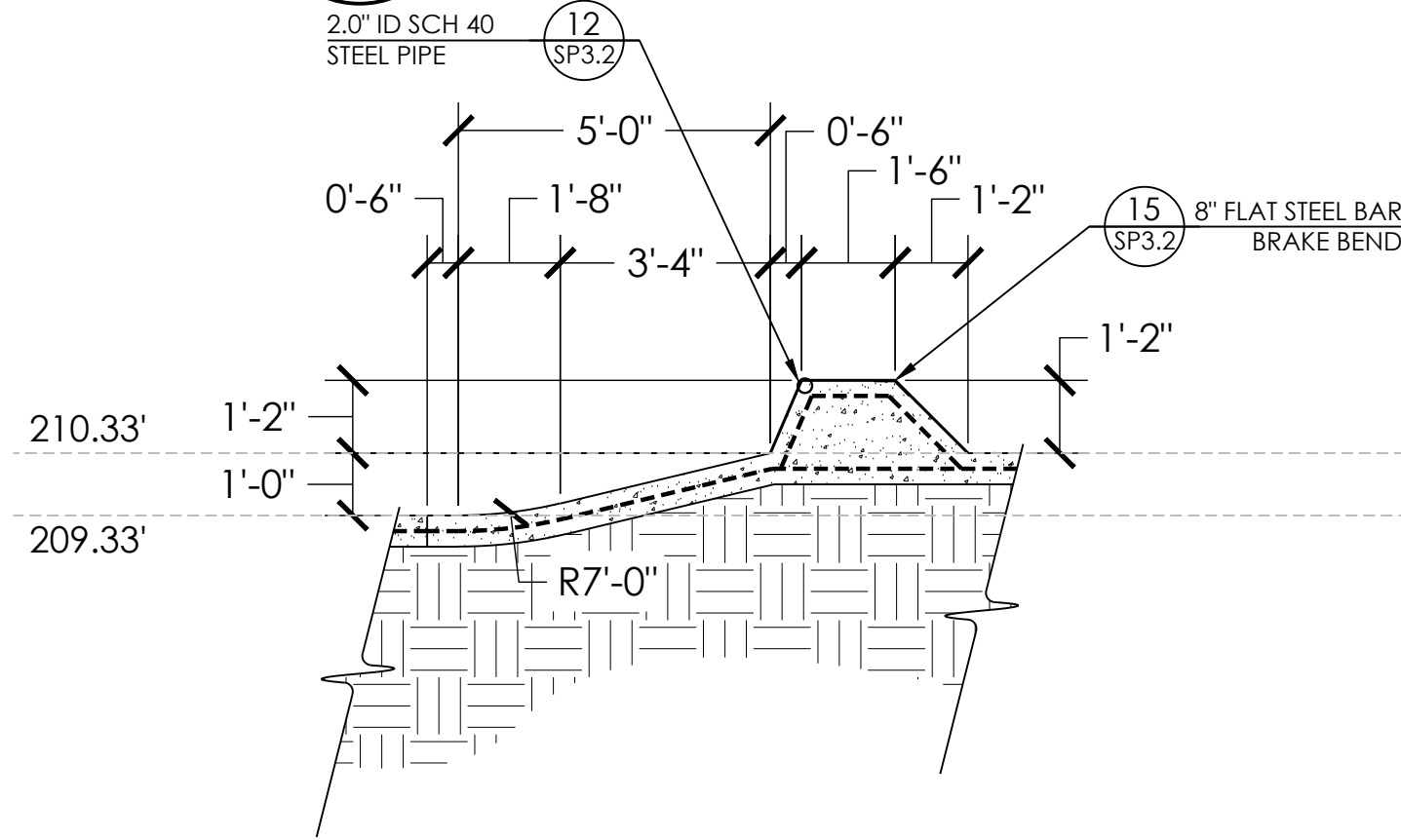
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SCALE: 1" = 3'



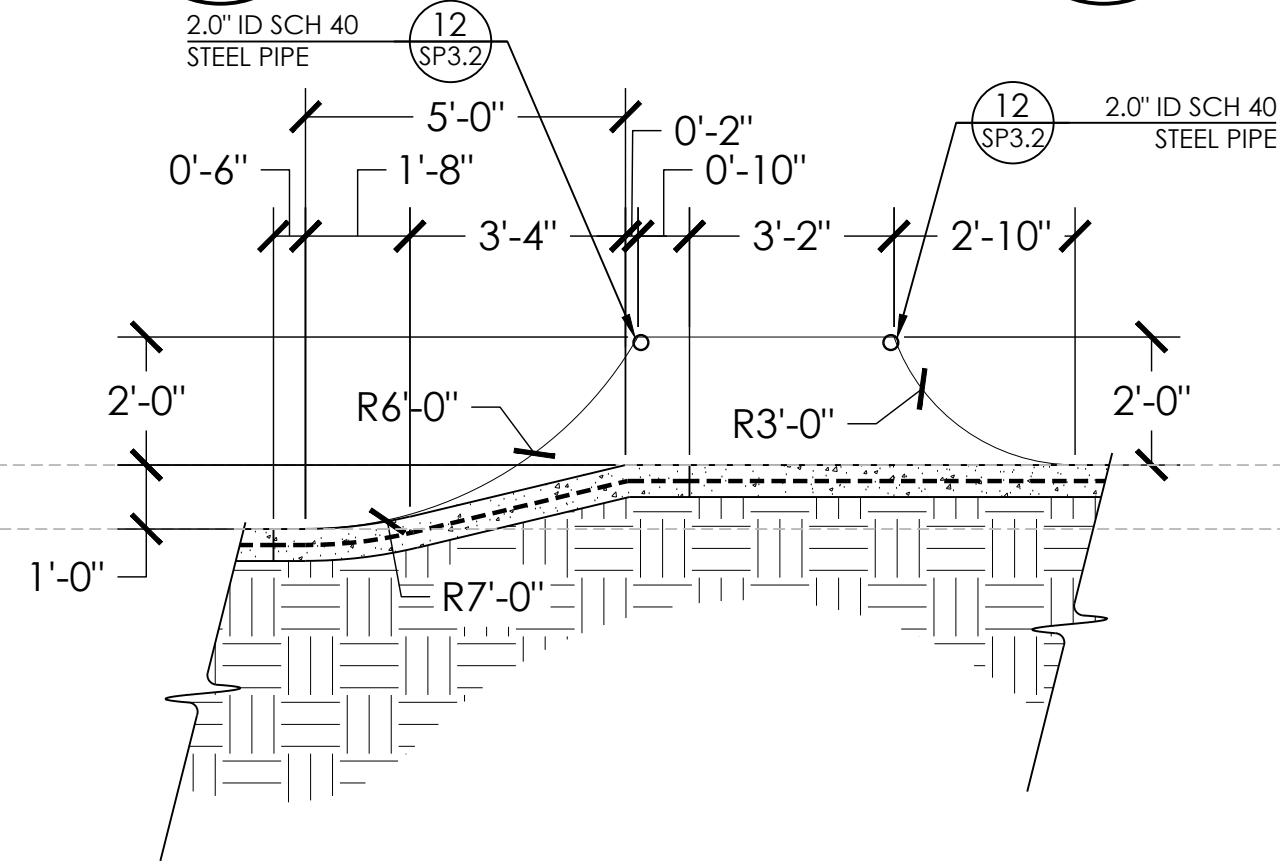
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SECTION AR  
SCALE: 1" = 3'



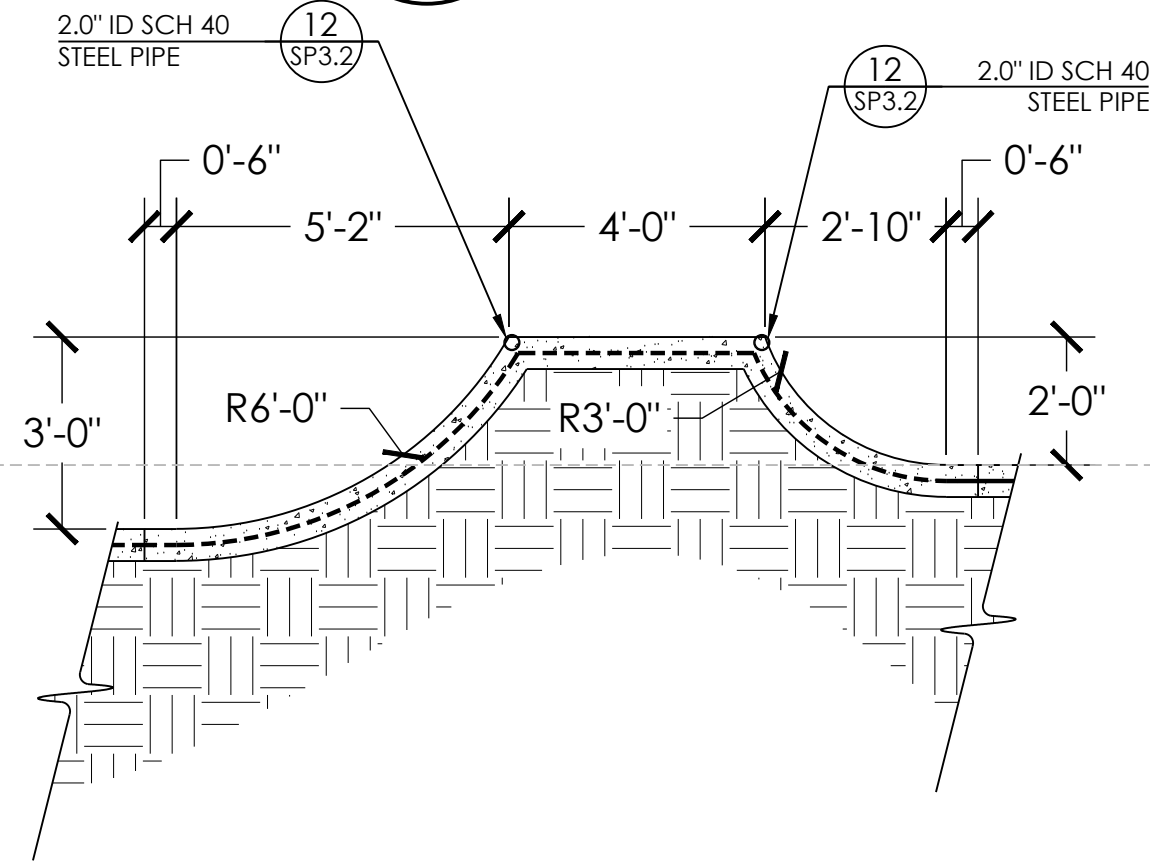
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SECTION AS  
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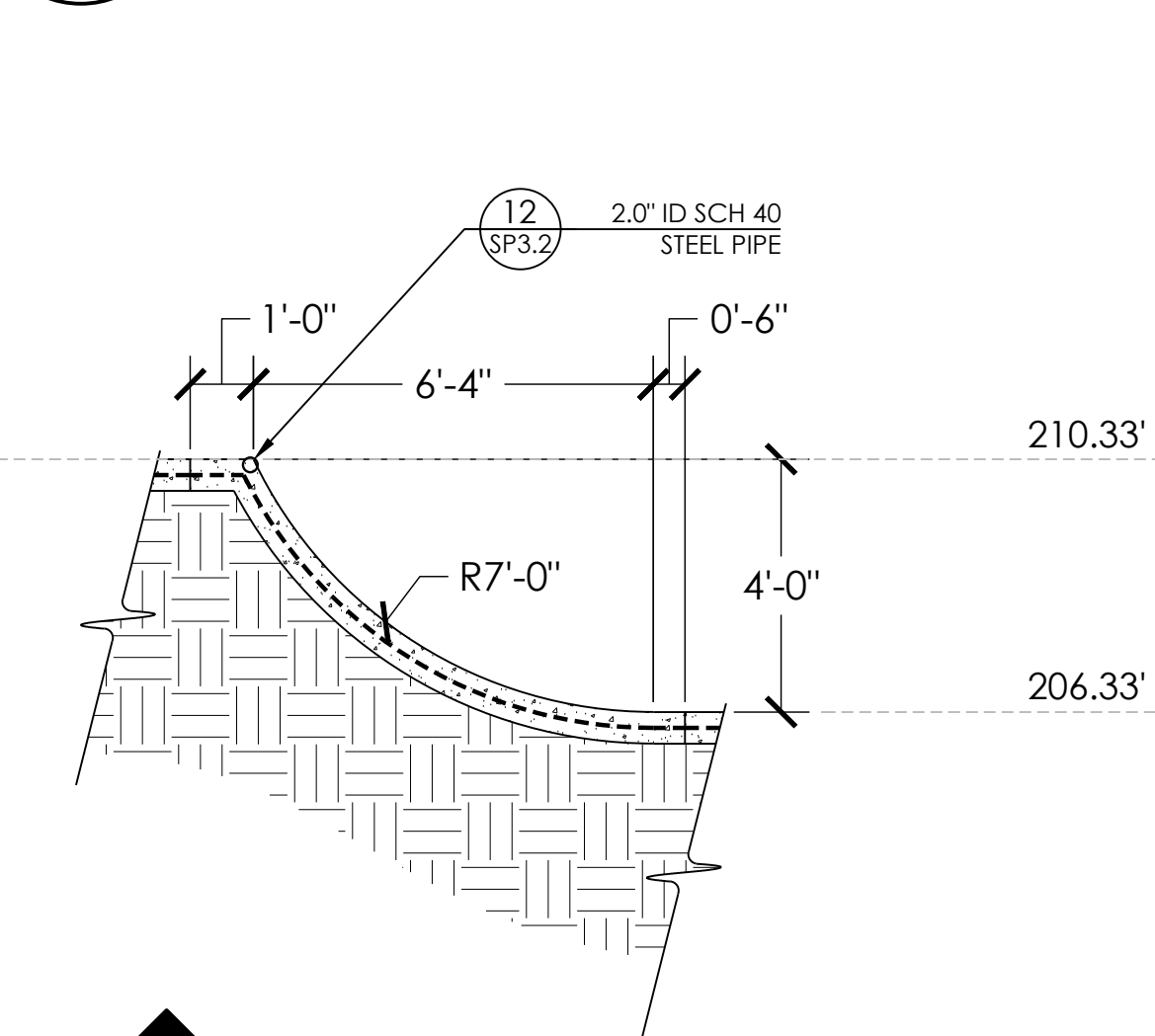
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SCALE: 1" = 3'



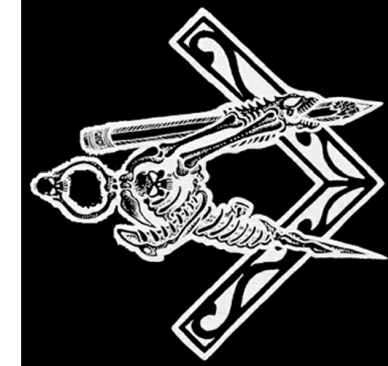
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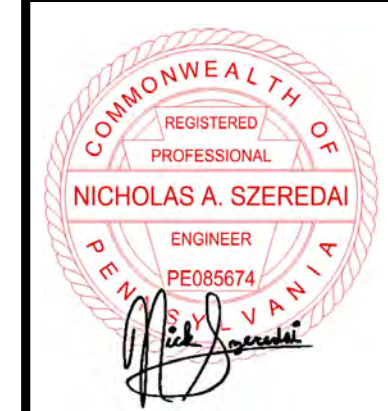
AV  
SP2.5  
SECTION AV  
SCALE: 1" = 3'



AW  
SP2.5  
SECTION AW  
SCALE: 1" = 3'



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SCALE:  
1" = 3'

SECTIONS AND KEY

PROJECT: READING SKATEPARK  
LOCATION: READING, PA

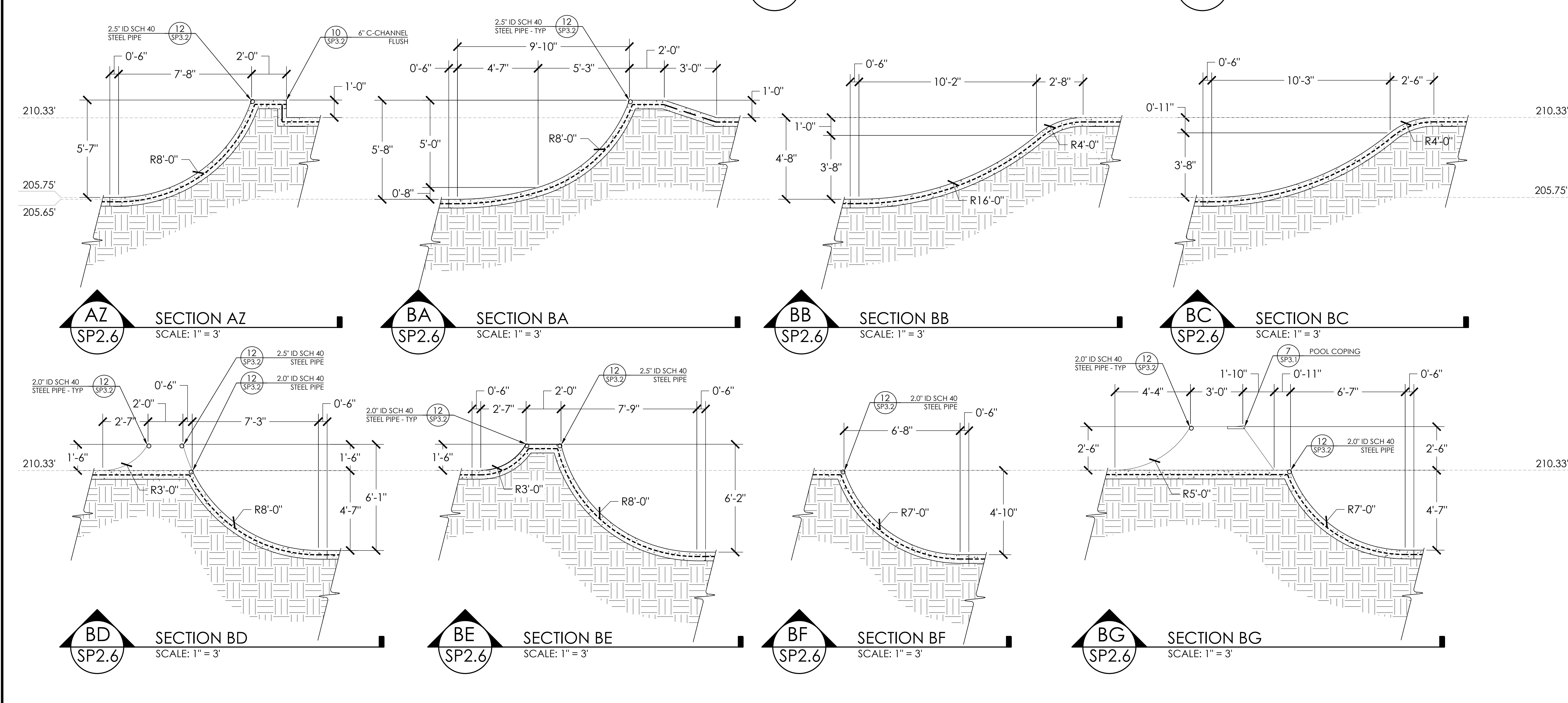
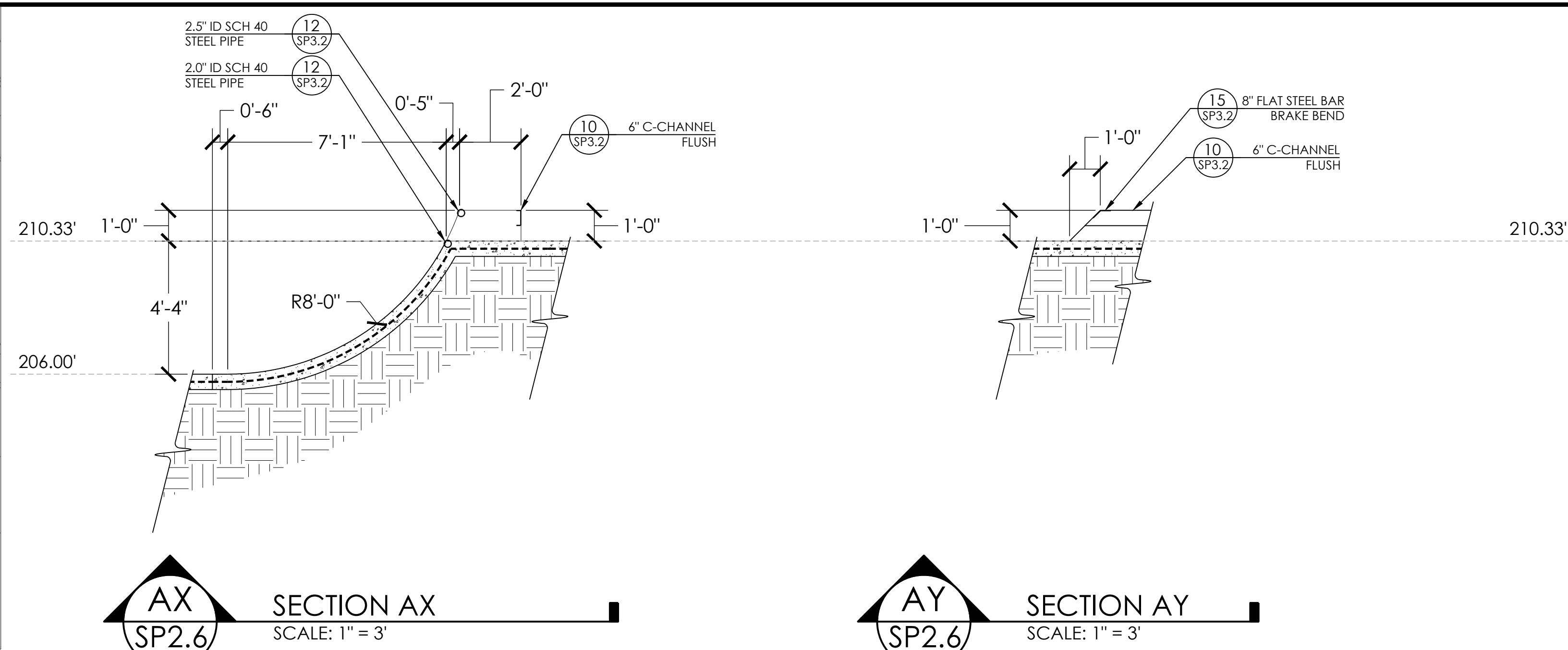
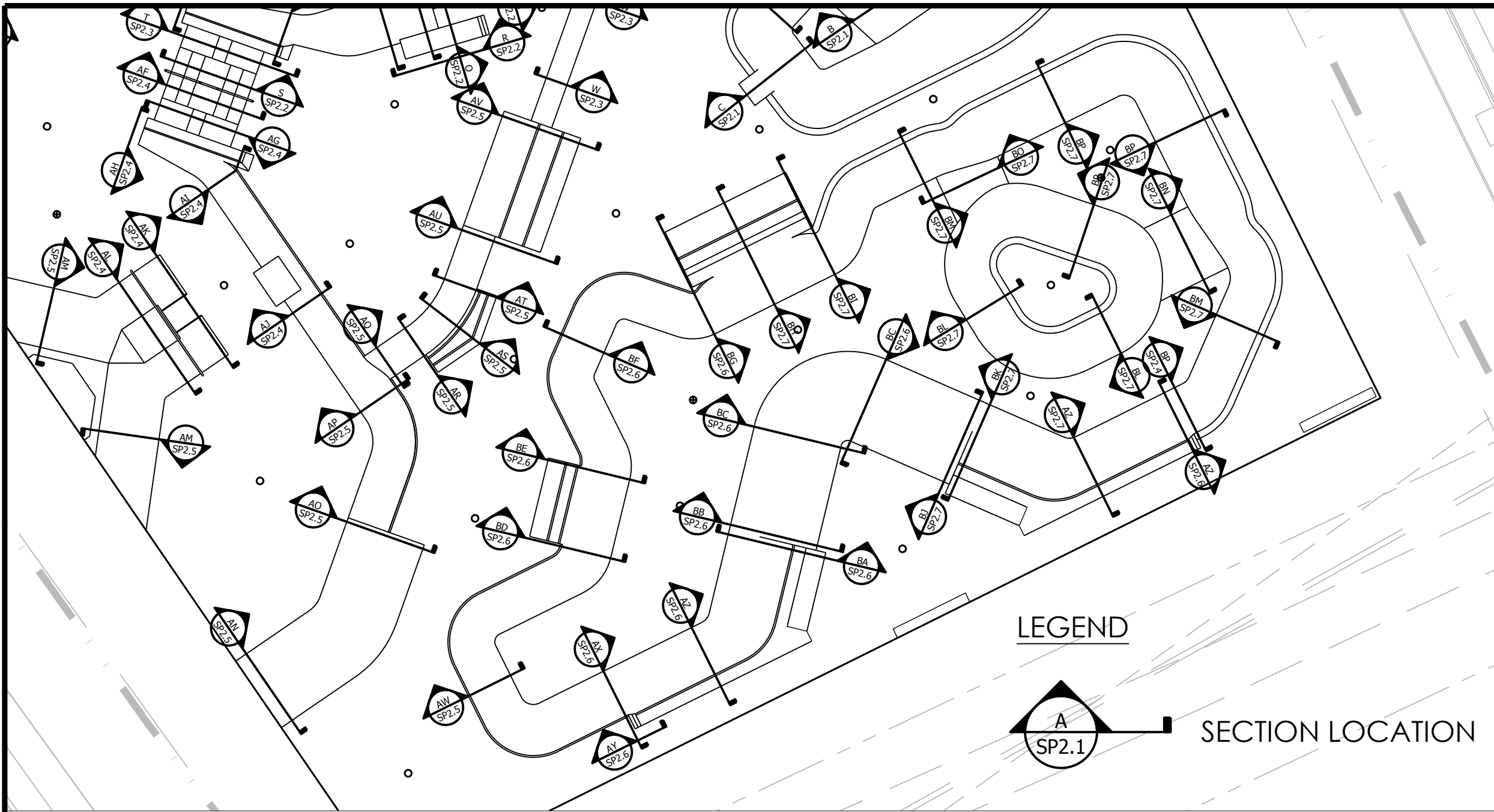
SHEET:  
SP2.5


DATE: 03.12.21

DRAWN BY: BAJ  
CHECKED BY: MBF

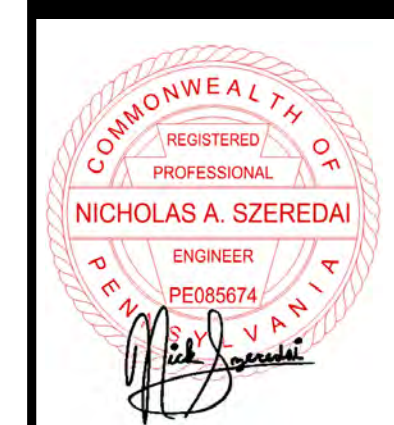
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**SECTIONS AND KEY**  
PROJECT: READING SKATEPARK  
LOCATION: READING, PA

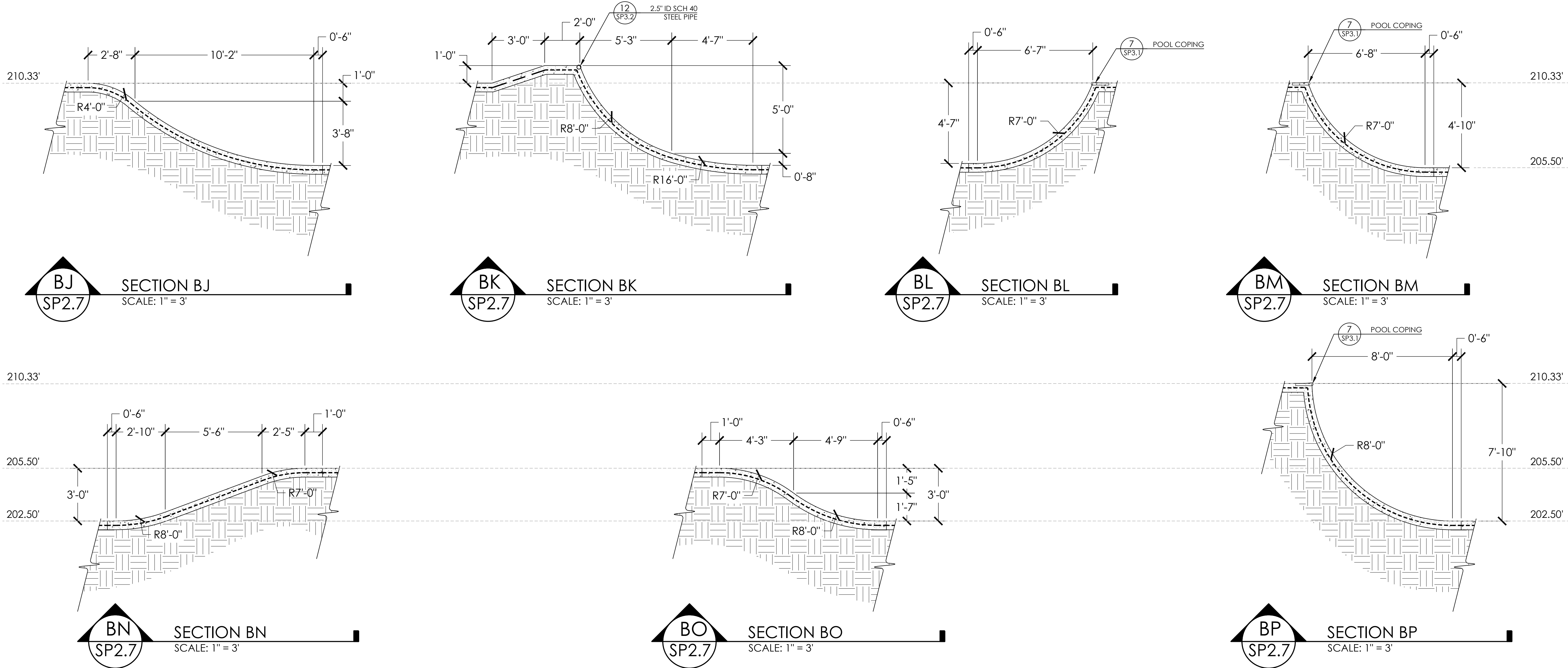
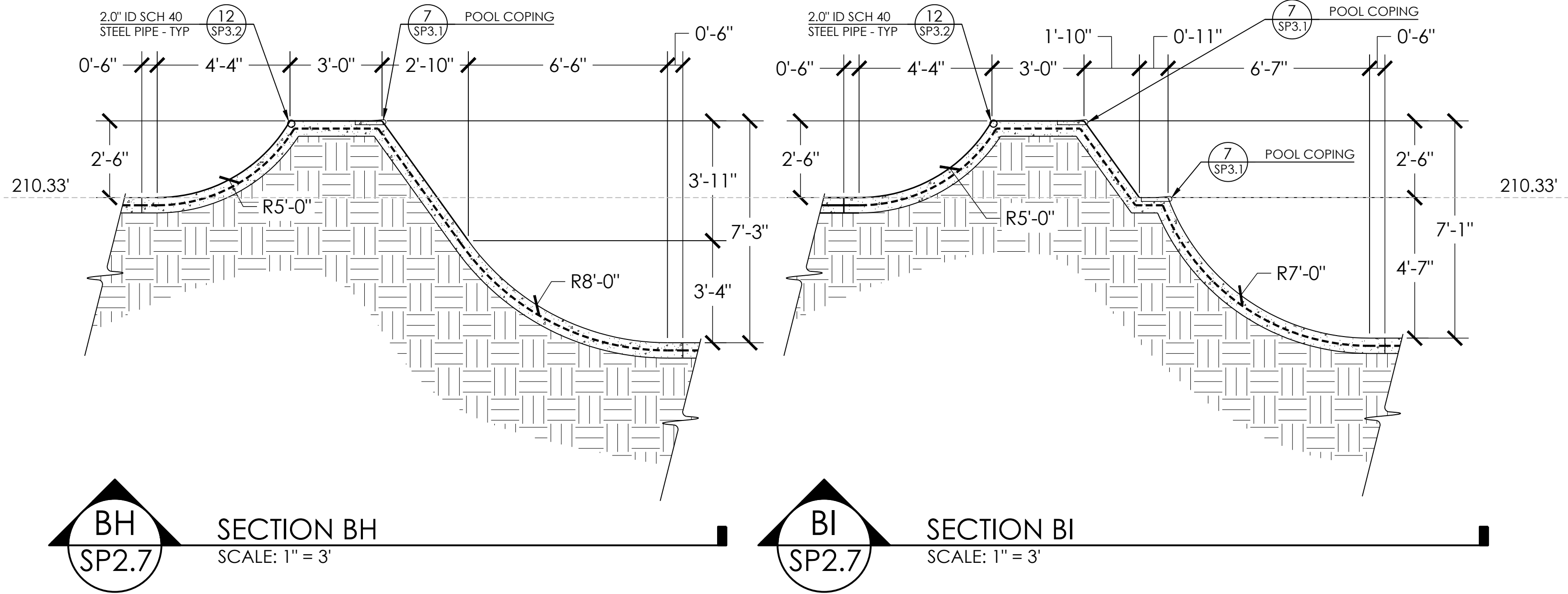
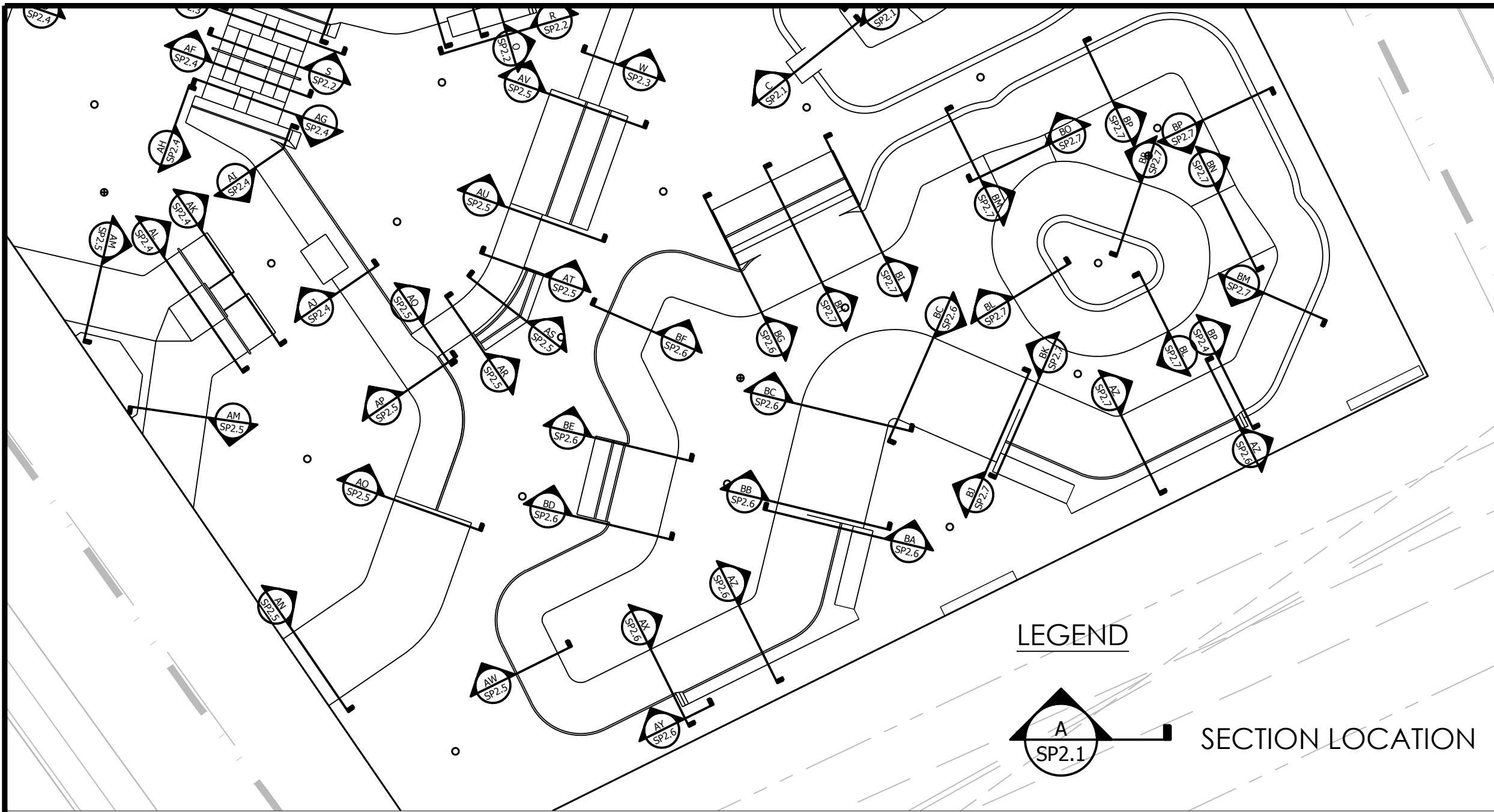
SHEET: **SP2.6**

DATE: 03.12.21

DRAWN BY: BAJ  
CHECKED BY: MBF

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SCALE:  
1" = 3'

SECTIONS AND KEY  
PROJECT: READING SKATEPARK  
LOCATION: READING, PA

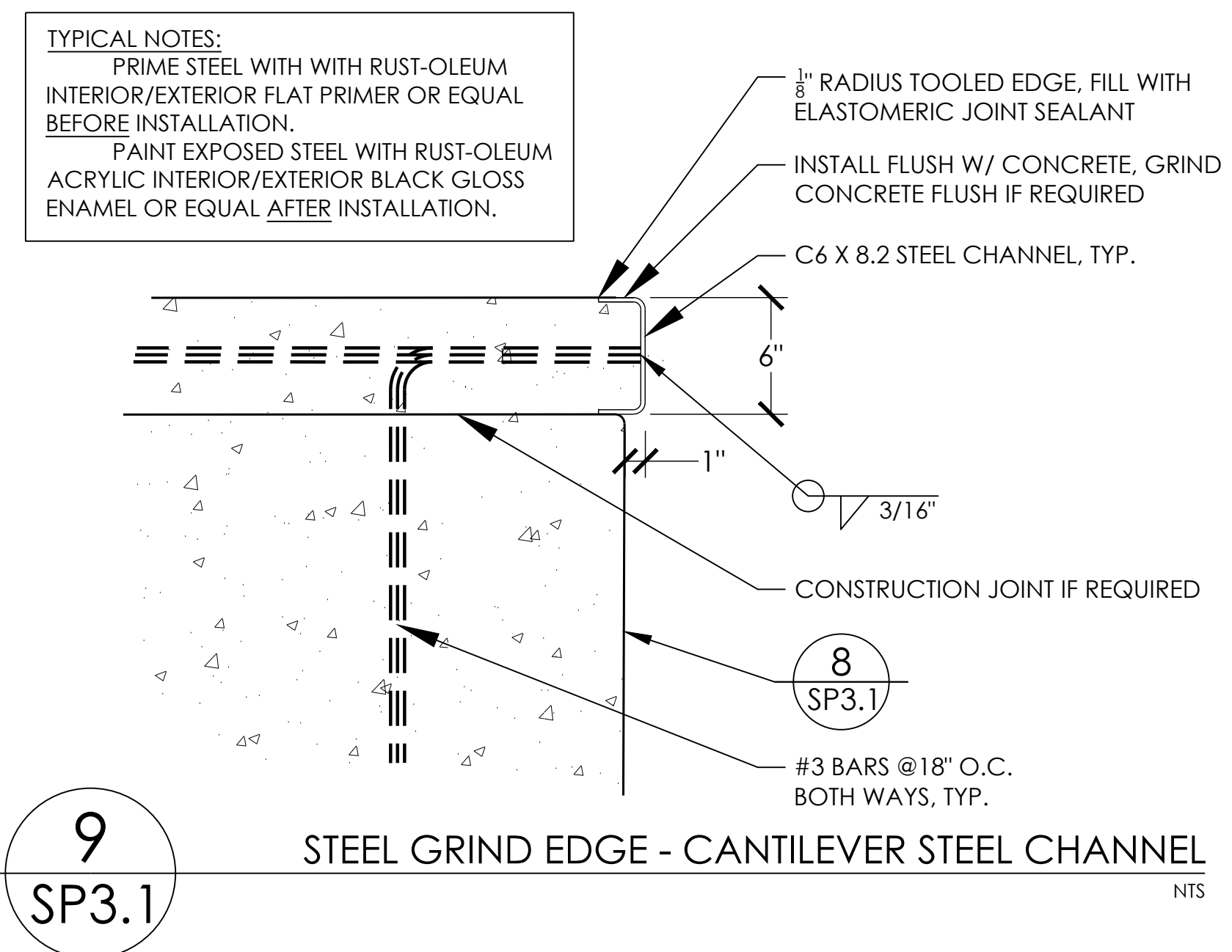
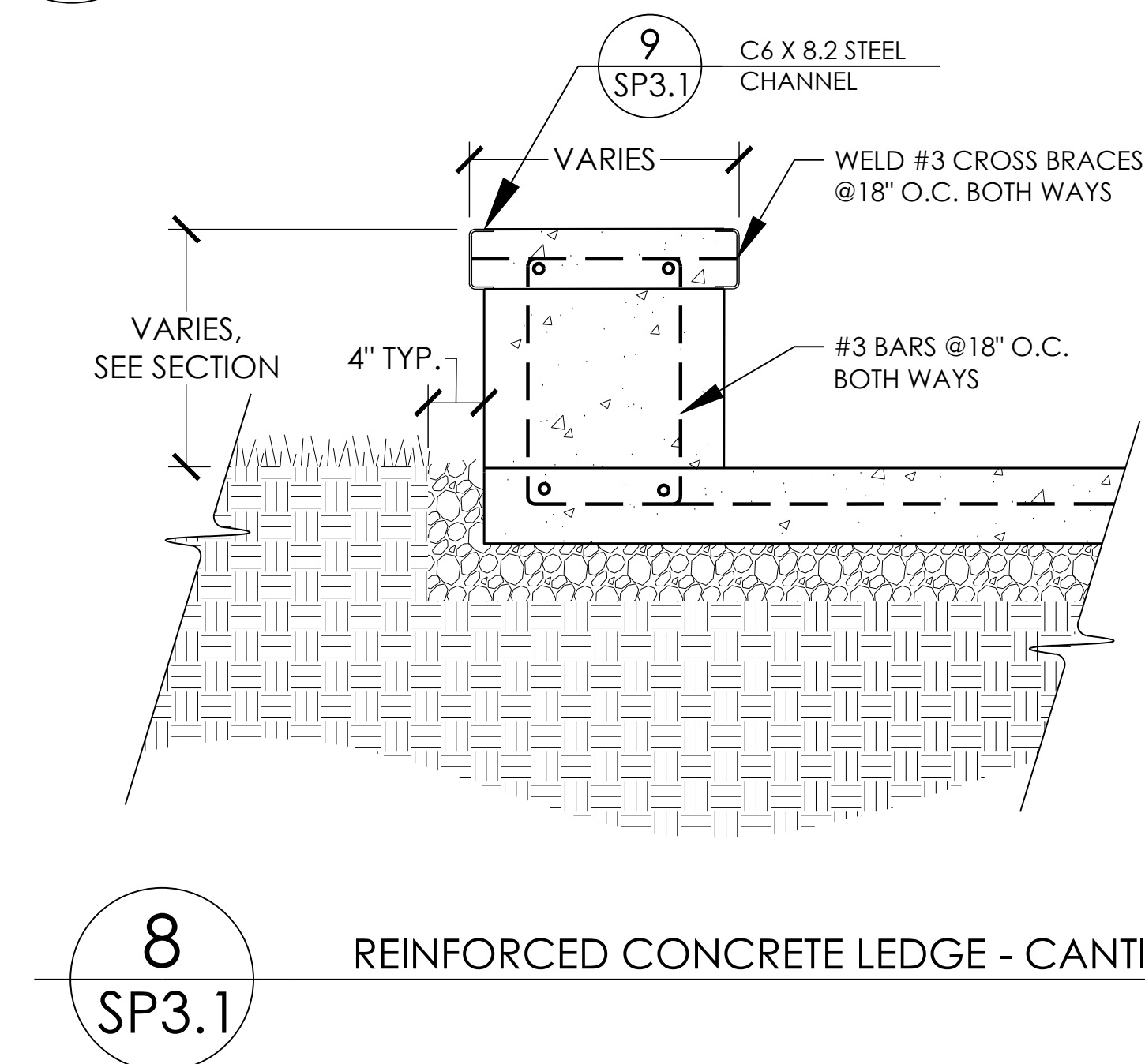
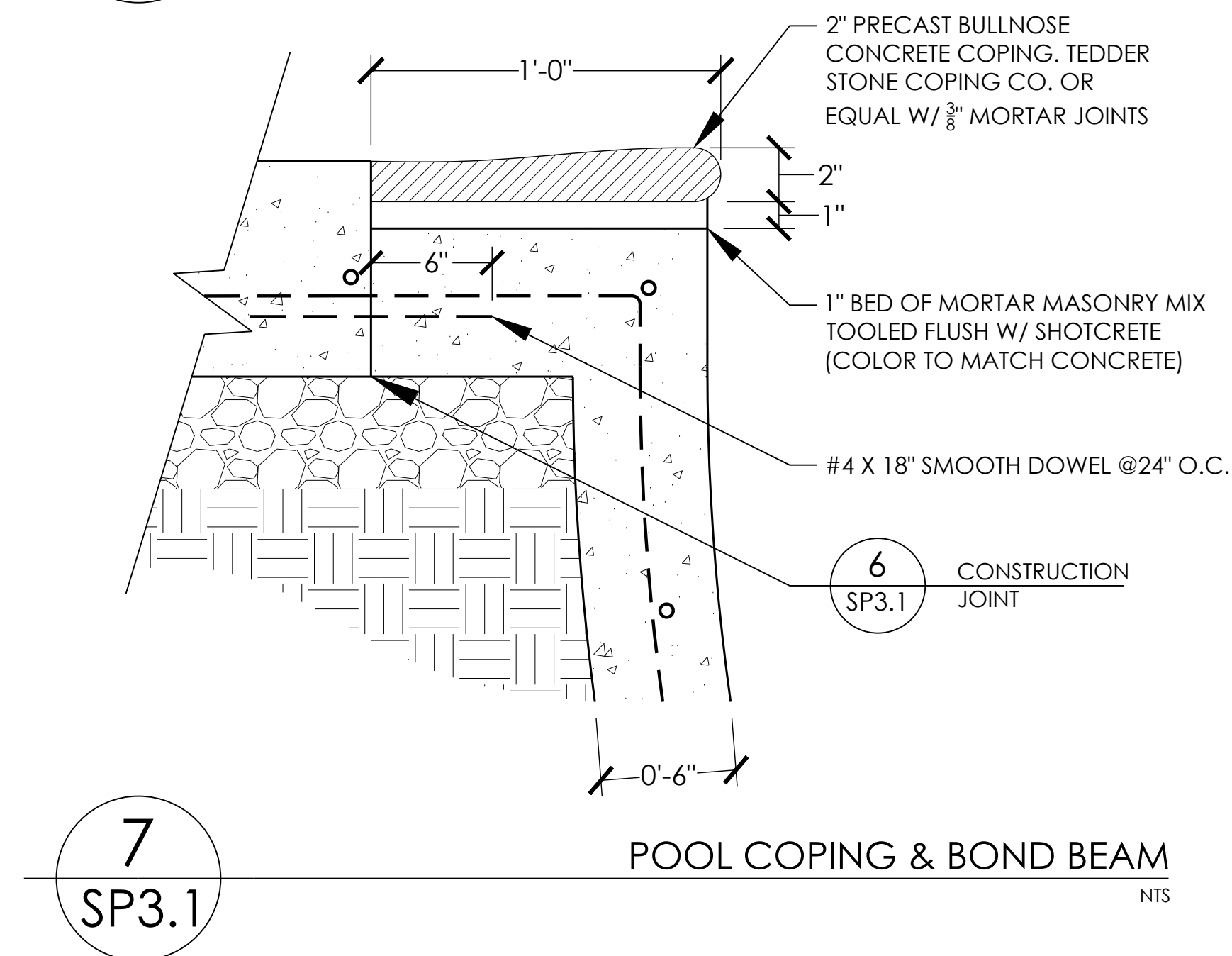
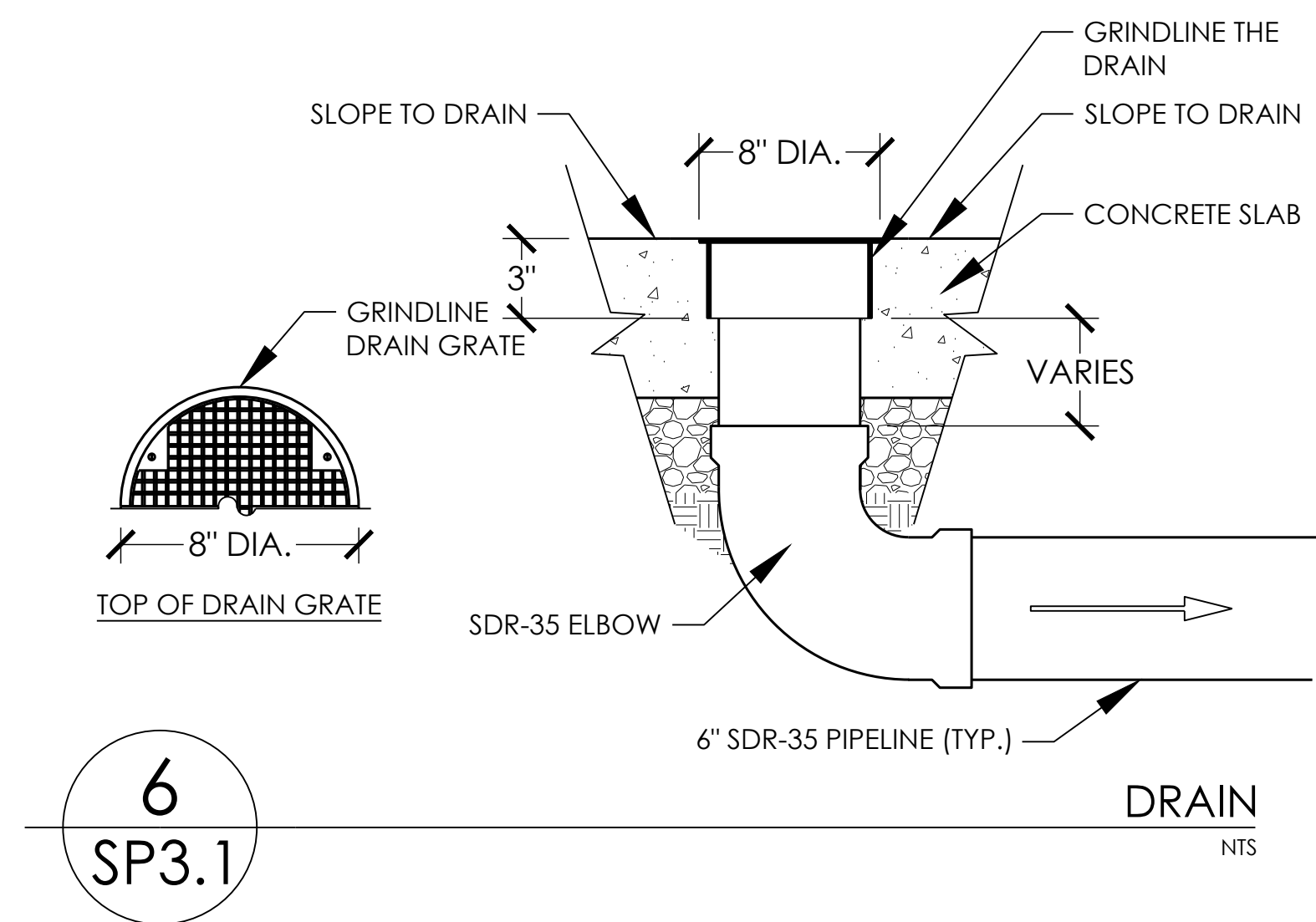
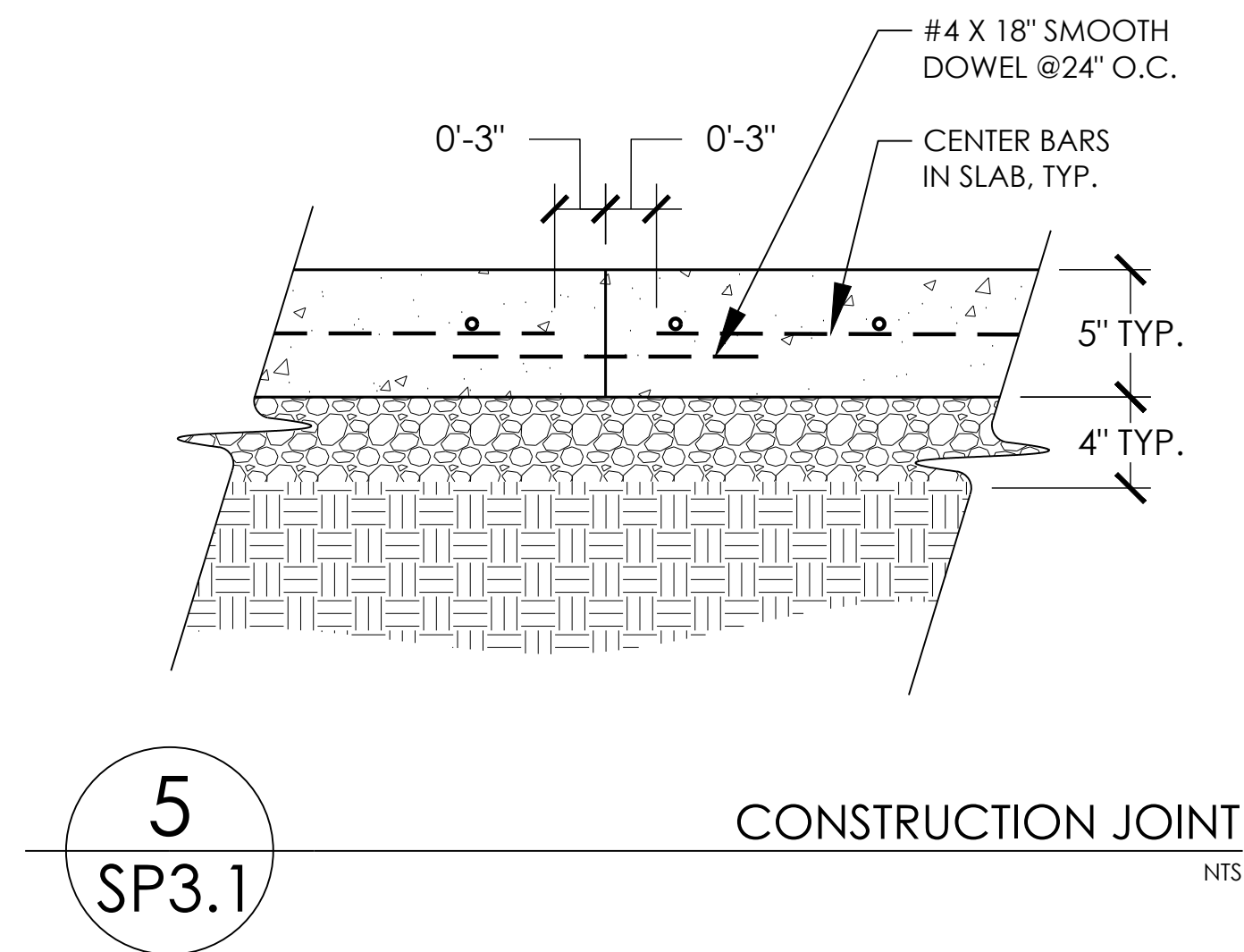
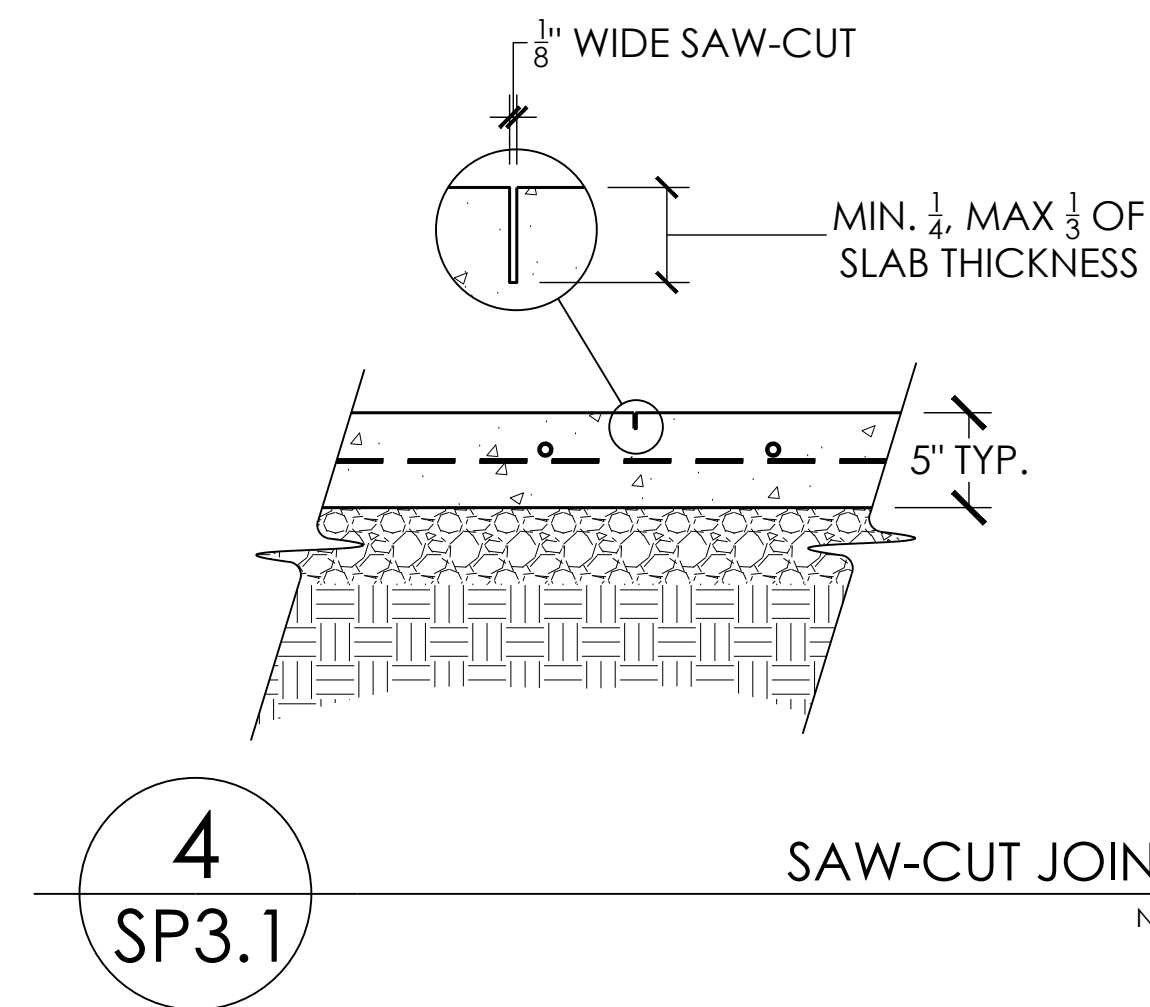
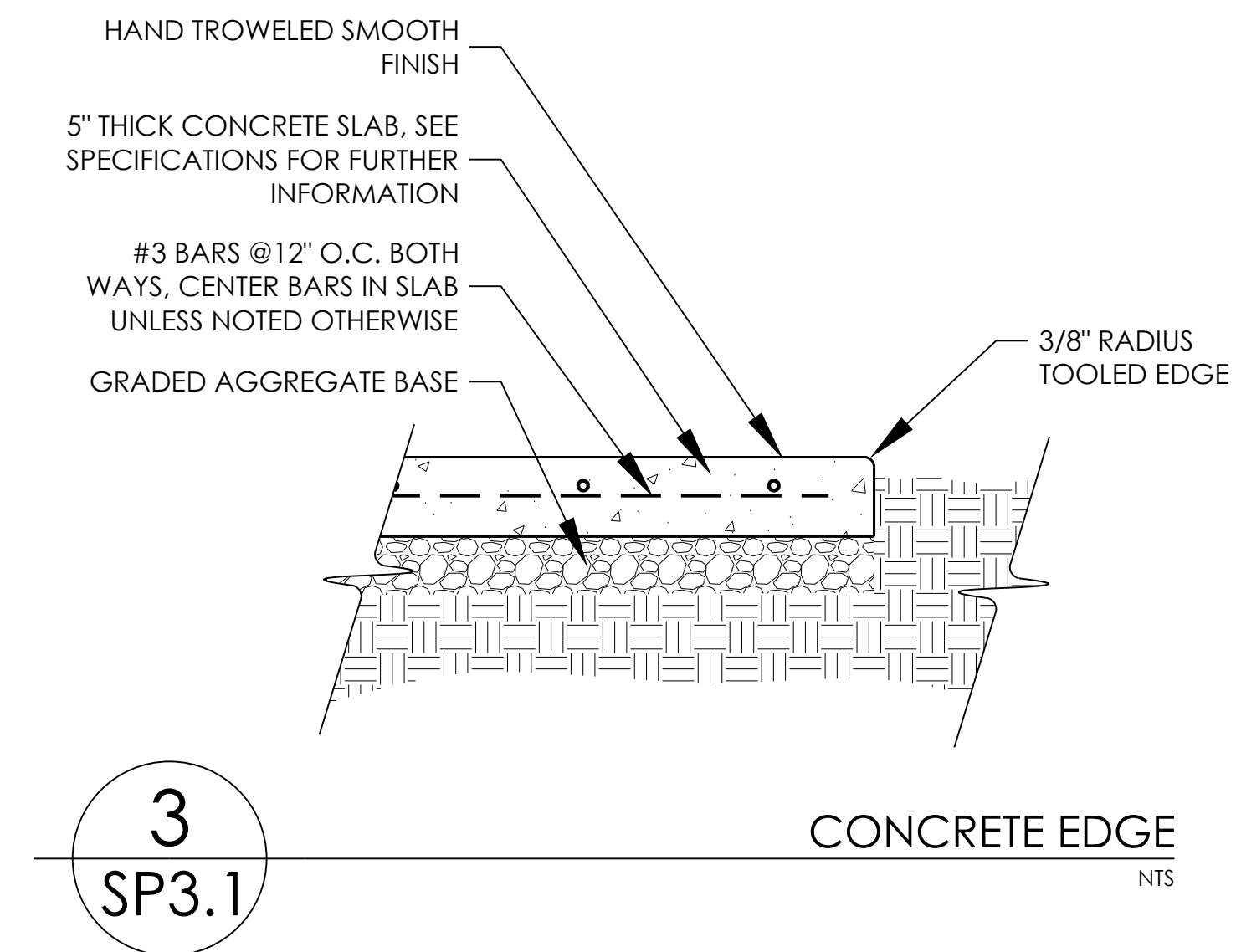
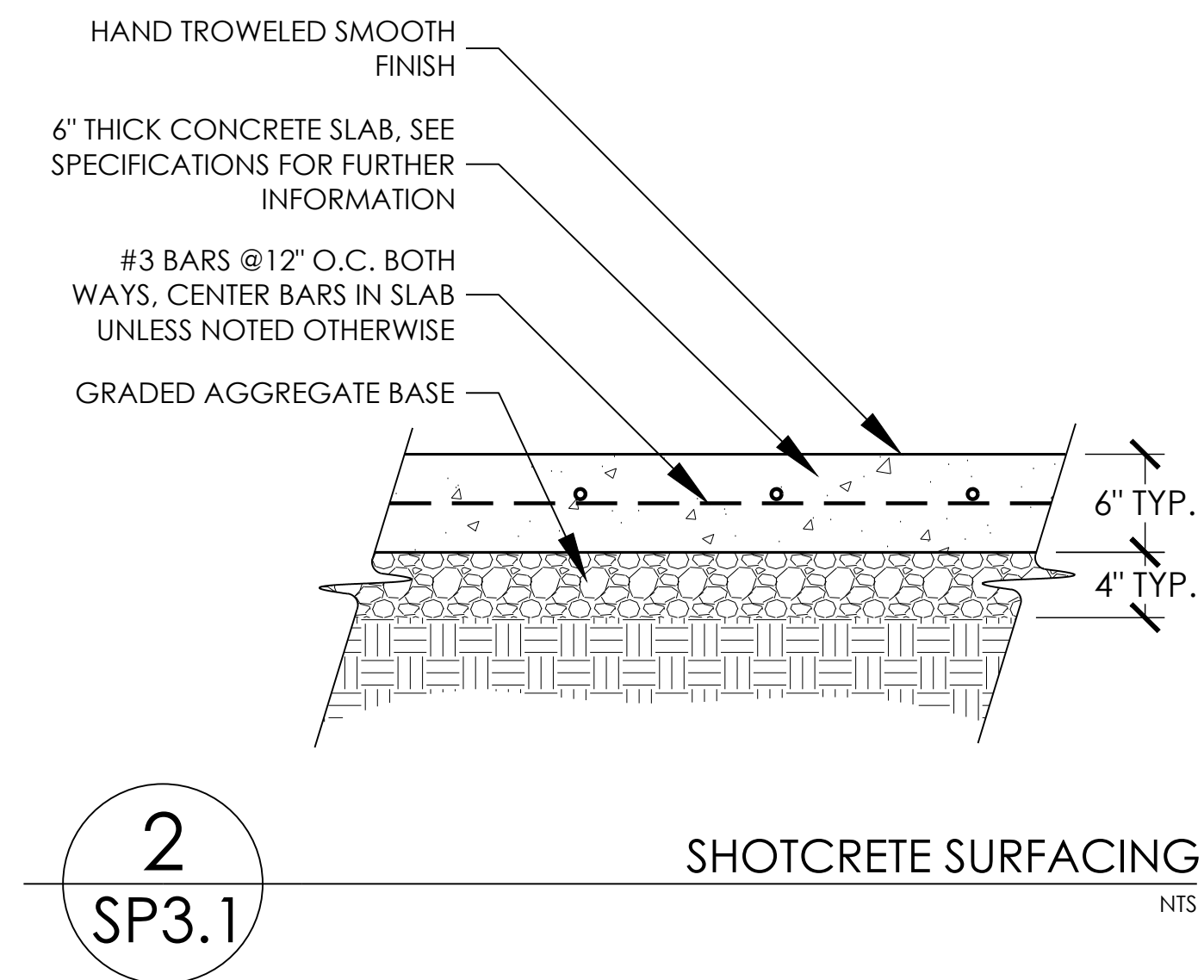
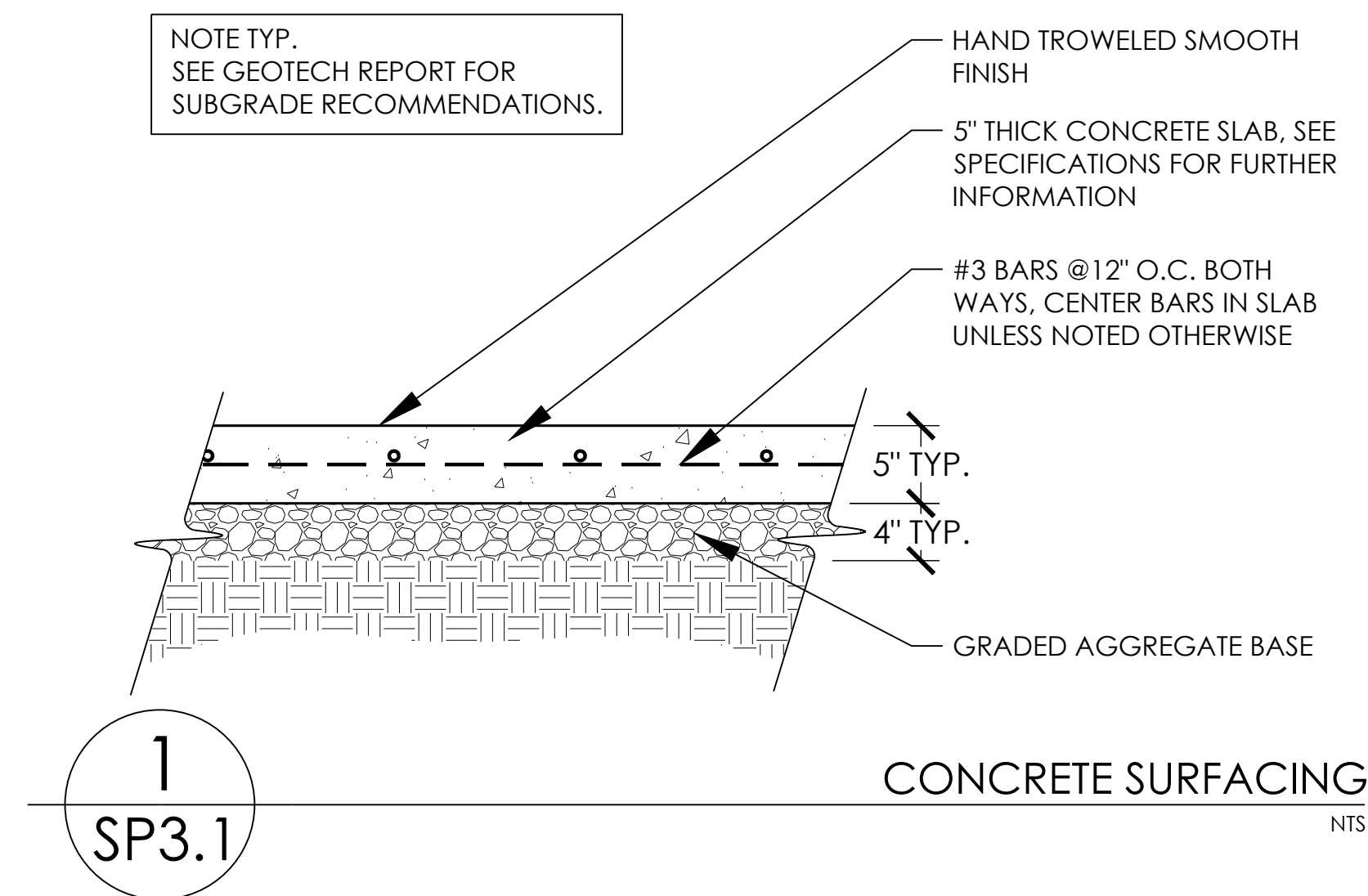
SHEET:  
**SP2.7**

DATE: 03.12.21

DRAWN BY: BAJ  
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SCALE:  
N.T.S.

DETAILS

PROJECT: READING SKATEPARK  
LOCATION: READING, PA

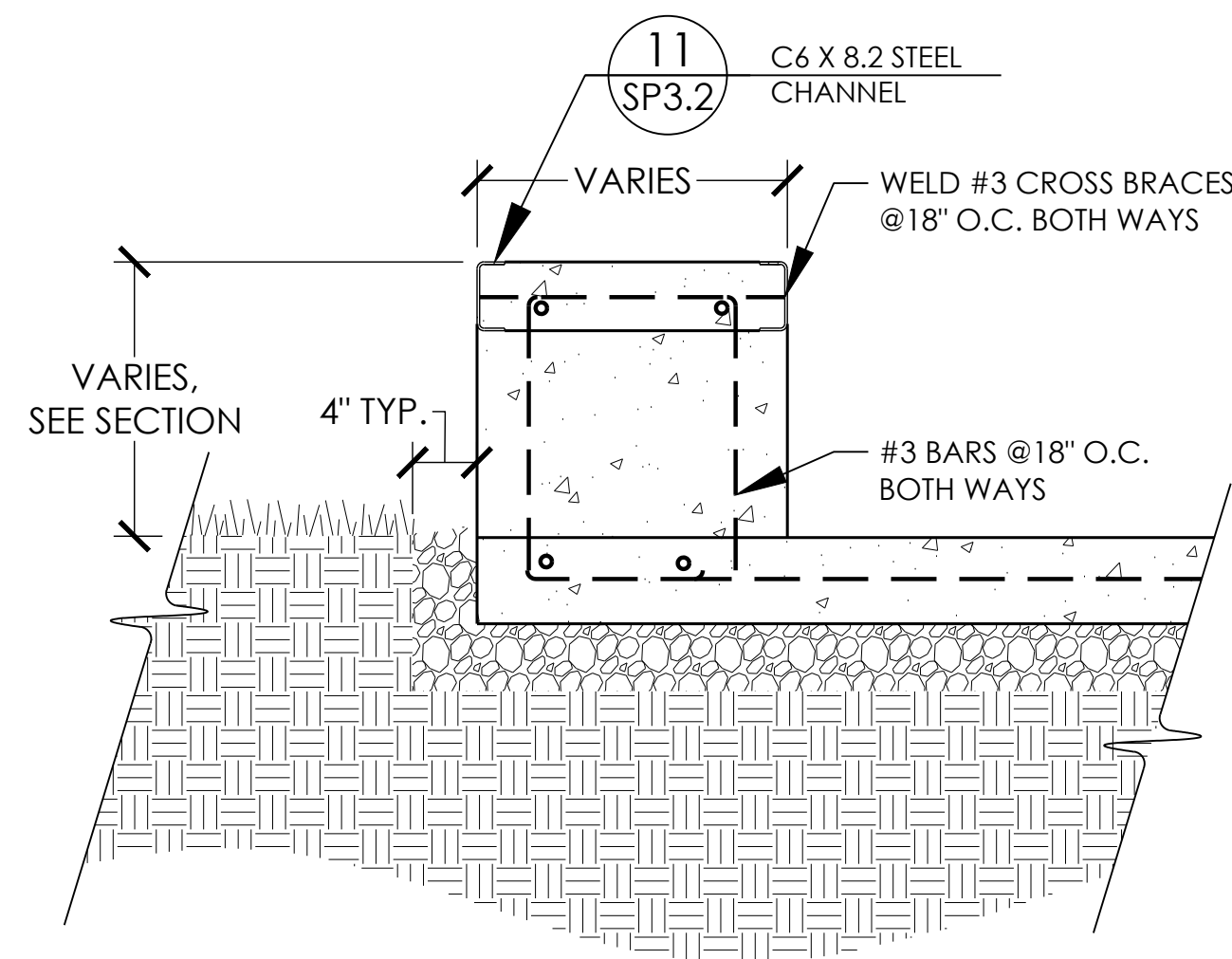
SHEET:  
**SP3.1**

DATE: 03.12.21

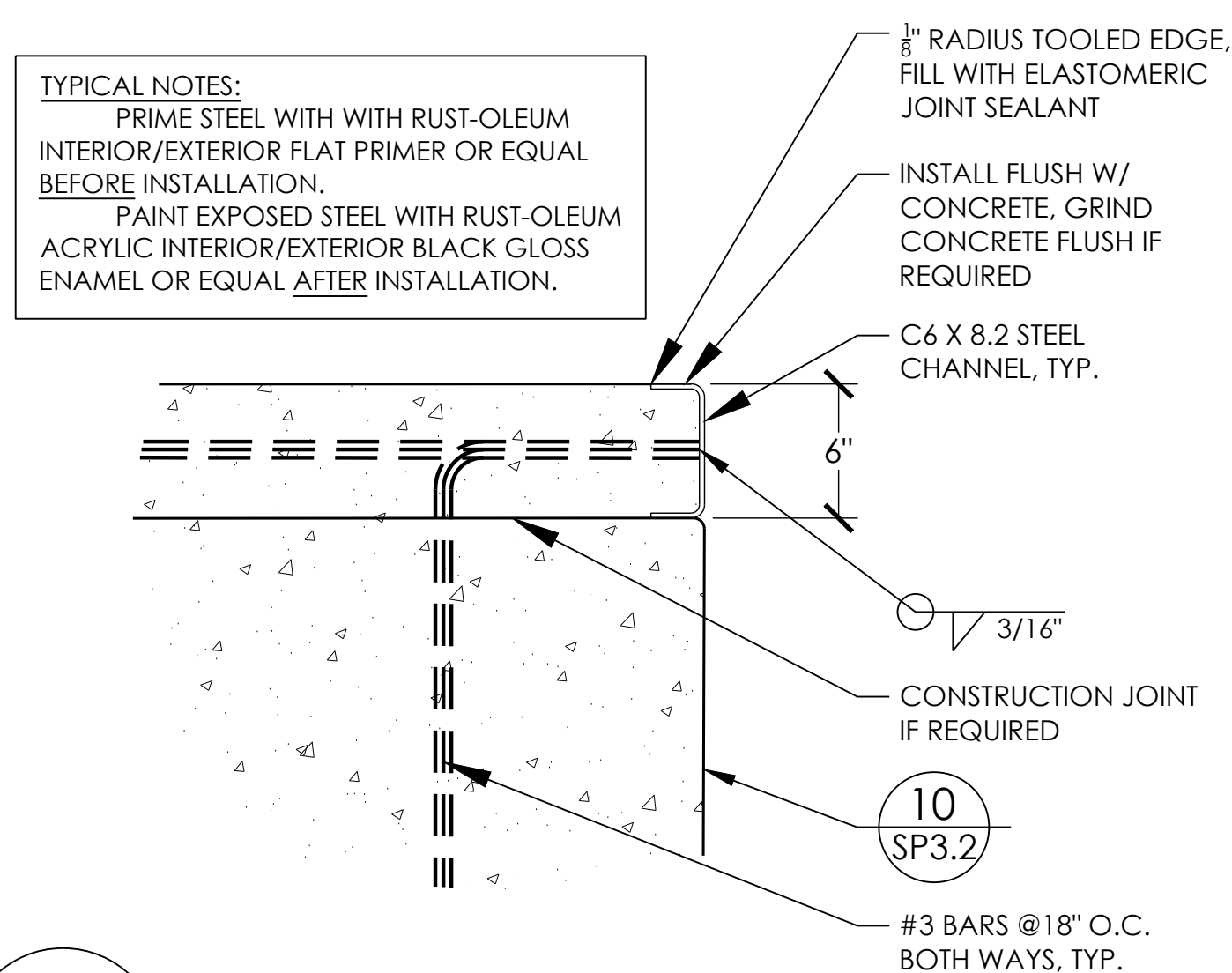
DRAWN BY: BAJ  
CHECKED BY: MBF

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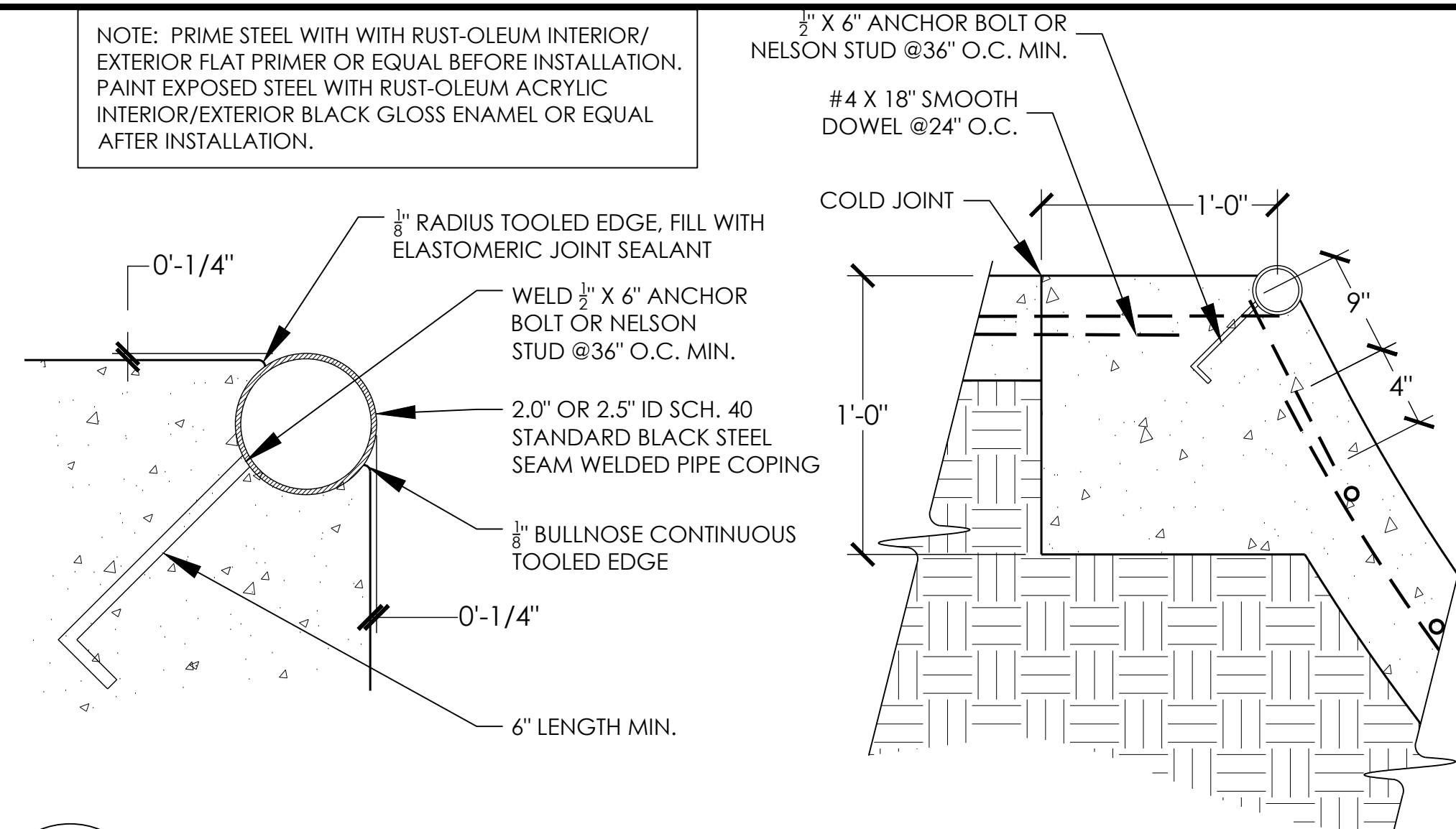




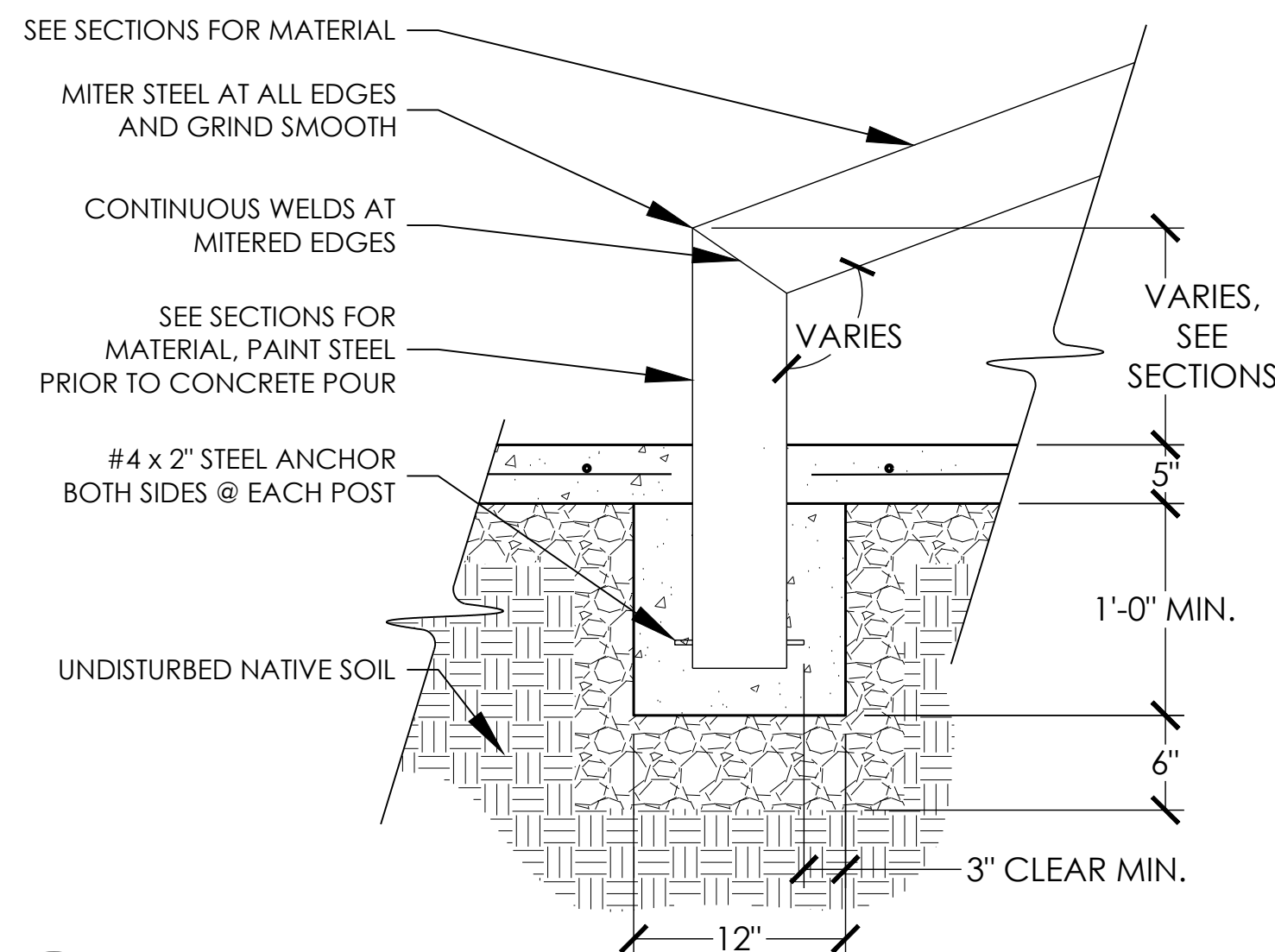
10  
SP3.2  
REINFORCED CONCRETE LEDGE - FLUSH EDGE  
NTS



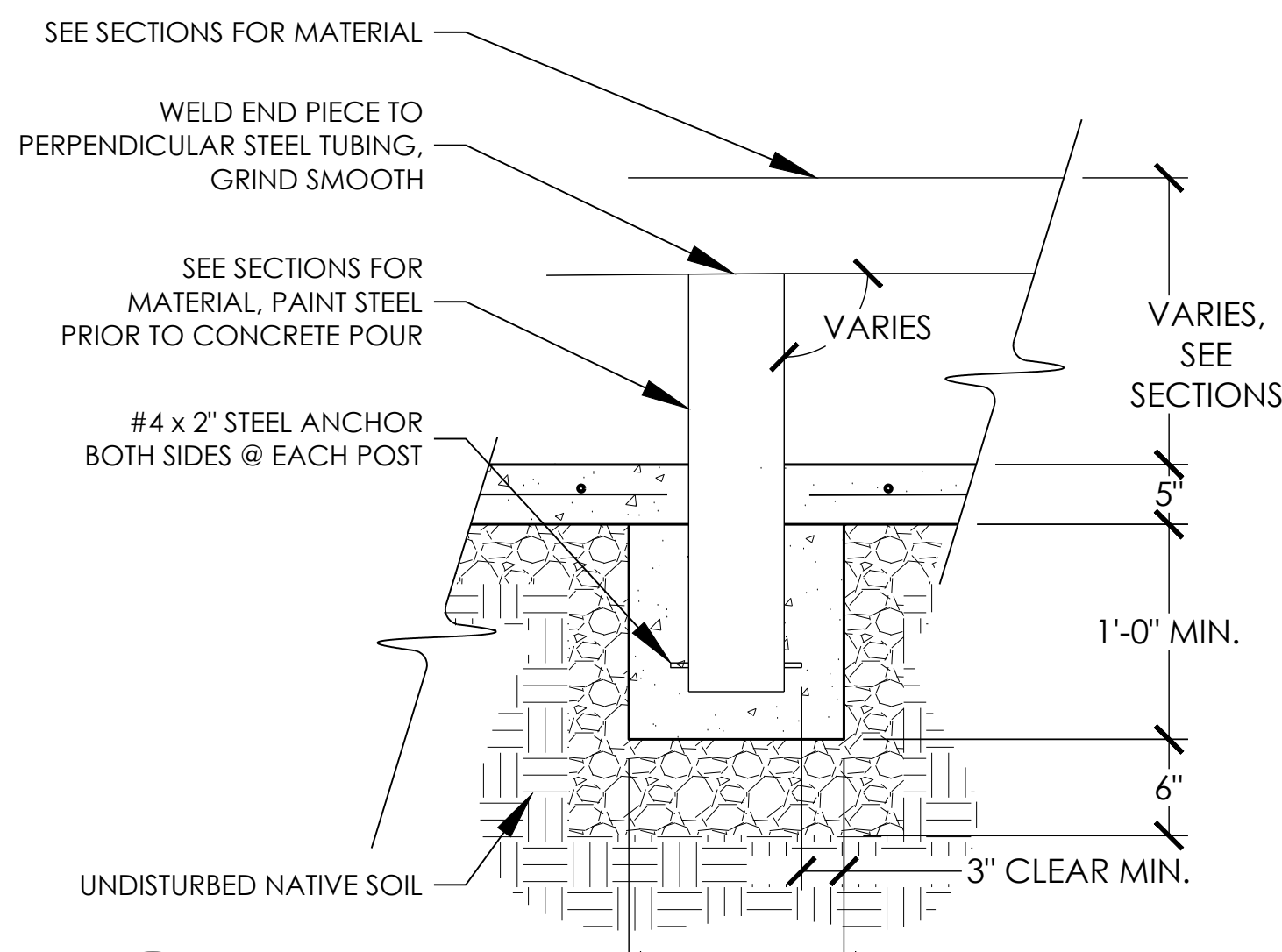
11  
SP3.2  
STEEL GRIND EDGE - FLUSH STEEL CHANNEL  
NTS



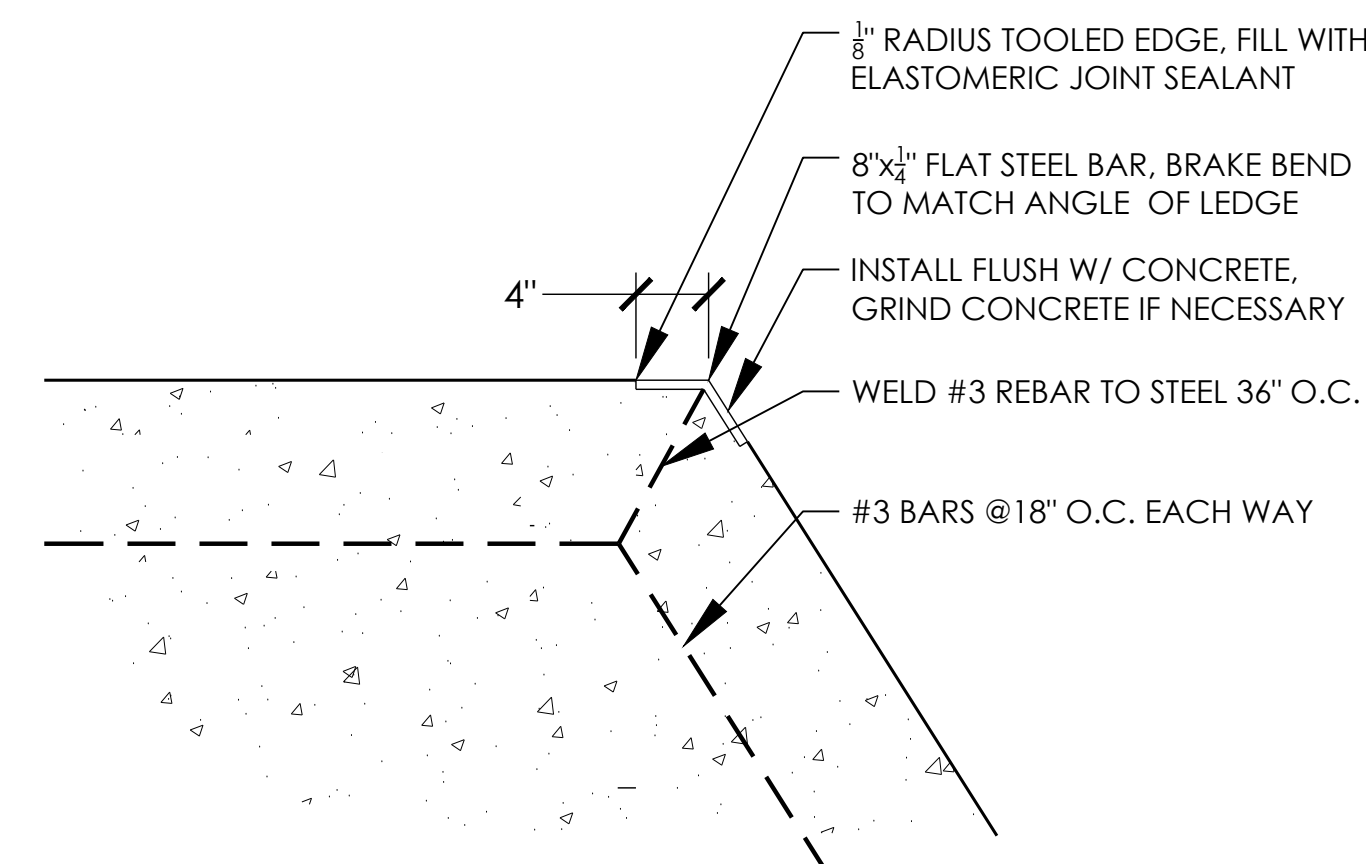
12  
SP3.2  
STEEL COPING AND BOND BEAM  
NTS



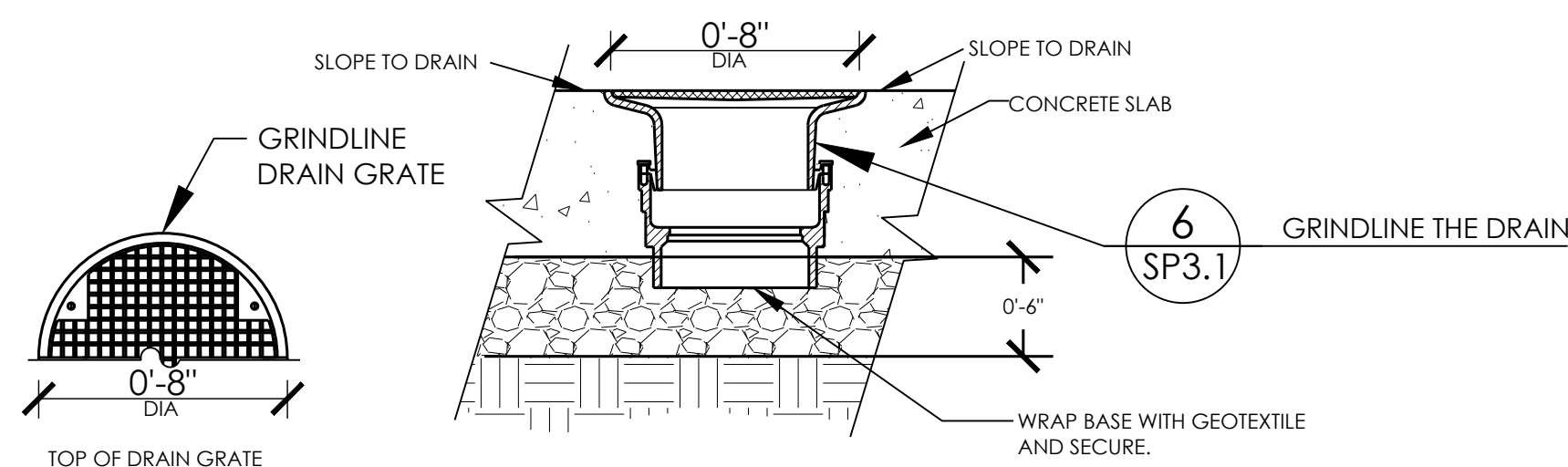
13  
SP3.2  
HANDRAIL FOOTING - END POST  
NTS



14  
SP3.2  
HANDRAIL FOOTING - CENTER POST  
NTS



15  
SP3.2  
FLAT STEEL BAR GRIND EDGE - BRAKE BEND  
NTS



16  
SP3.2  
DRAIN BODY  
NTS

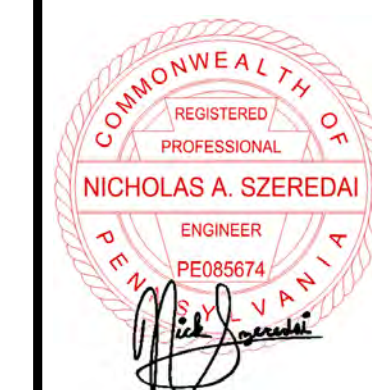
TYPICAL NOTES:  
PRIME STEEL WITH WITH RUST-OLEUM  
INTERIOR/EXTERIOR FLAT PRIMER OR EQUAL  
BEFORE INSTALLATION.  
PAINT EXPOSED STEEL WITH RUST-OLEUM  
ACRYLIC INTERIOR/EXTERIOR BLACK GLOSS  
ENAMEL OR EQUAL AFTER INSTALLATION.

NOTE: PRIME STEEL WITH WITH RUST-OLEUM INTERIOR/  
EXTERIOR FLAT PRIMER OR EQUAL BEFORE INSTALLATION.  
PAINT EXPOSED STEEL WITH RUST-OLEUM ACRYLIC  
INTERIOR/EXTERIOR BLACK GLOSS ENAMEL OR EQUAL  
AFTER INSTALLATION.



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SCALE:  
N.T.S.

DETAILS

PROJECT: READING SKATEPARK  
LOCATION: READING, PA

SHEET:  
SP3.2

DATE: 03.12.21

DRAWN BY: BAJ  
CHECKED BY: MBF

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